California Regional Water Quality Control Board
Santa Ana Region

April 15, 2005

Item: 6

Subject: **Consideration of Approval of Chino Basin and Cucamonga Basin Maximum Benefit Monitoring Programs Submitted in Compliance with the Total Dissolved Solids (TDS) and Nitrogen Management Plan Specified in the Water Quality Control Plan for the Santa Ana River Basin – Resolution No. R8-2005-0064**

DISCUSSION

On January 22, 2004, the Regional Board adopted Resolution No. R8-2004-0001, amending the Water Quality Control Plan for the Santa Ana River Basin (Basin Plan) to incorporate a revised Total Dissolved Solids (TDS) and Nitrogen Management Plan. The revised Total Dissolved Solids and Nitrogen Management Plan addresses total dissolved solids (TDS) and nitrogen in both surface waters and groundwaters throughout the Santa Ana River basin.

A Maximum Benefit Implementation Plan for Salt Management for the Cucamonga Basin and certain areas within the Chino Basin (Maximum Benefit Implementation Plan) is included as part of the TDS and Nitrogen Management Plan. The Maximum Benefit Implementation Plan identifies the actions necessary to implement maximum benefit water quality objectives for TDS and nitrate-nitrogen that apply to the Cucamonga and Chino North Management Zones. These objectives apply provided that the Chino Basin Watermaster (CBWM) and the Inland Empire Utilities Agency (IEUA) implement specific plans and projects, including surface and groundwater monitoring programs. The Maximum Benefit Implementation Plan requires CBWM and IEUA to submit proposed ground and surface water monitoring programs for approval by the Regional Board.

By letter dated February 20, 2004, CBW and IEUA submitted proposed surface and groundwater monitoring programs. These proposed monitoring programs are attached to Resolution No. R8-2005-0064. Staff has reviewed the proposed monitoring programs and finds that they satisfy the Maximum Benefit Implementation Plan requirements.

On April 15, 2005, the Regional Board will also consider adoption of Water Recycling Requirements Order No. R8-2005-0033 for IEUA and CBWM. This Order requires the implementation by CBWM and IEUA of surface and groundwater monitoring programs approved by the Regional Board.

STAFF RECOMMENDATION

Adopt Resolution No. R8-2005-0064, approving the Cucamonga Basin and Chino Basin Maximum Benefit Surface and Groundwater Monitoring Programs shown in the attachment to the Resolution.

California Regional Water Quality Control Board
Santa Ana Region

RESOLUTION NO. R8-2005-0064

Resolution Approving the Chino Basin and Cucamonga Basin Maximum Benefit Surface Water and Groundwater Monitoring Program Proposals as Required in the Total Dissolved Solids and Nitrogen Management Plan
Specified in the
Water Quality Control Plan for the Santa Ana River Basin

WHEREAS, the California Regional Water Quality Control Board, Santa Ana Region (hereinafter Regional Board), finds that:

1. An updated Water Quality Control Plan for the Santa Ana River Basin (Basin Plan) was adopted by the Regional Board on March 11, 1994, approved by the State Water Resources Control Board (SWRCB) on July 21, 1994, and approved by the Office of Administrative Law (OAL) on January 24, 1995.

2. Amendments to the Basin Plan to incorporate a revised Total Dissolved Solids and Nitrogen Management Plan into the 1995 Basin Plan were approved by the Regional Board on January 22, 2004, by the State Water Resources Control Board on October 1, 2004 and by the Office of Administrative Law on December 23, 2004. The surface water components of the amendments are awaiting approval by the U.S. Environmental Protection Agency (EPA). It is neither appropriate nor necessary to await EPA approval to consider approval, and thereby trigger implementation, of monitoring programs designed to assess water quality conditions in the Region.

3. The revised Total Dissolved Solids and Nitrogen Management Plan addresses total dissolved solids (TDS) and nitrogen in both surface waters and groundwaters throughout the Santa Ana River basin.

4. The revised TDS and Nitrogen Management Plan includes a Maximum Benefit Implementation Plan for Salt Management in the Chino Basin and Cucamonga Basin (hereinafter, Maximum Benefit Implementation Plan). The Maximum Benefit Implementation Plan identifies the actions necessary to implement maximum benefit water quality objectives for TDS and nitrate-nitrogen that apply to the Cucamonga Basin and certain areas of the Chino Basin. These objectives apply provided that the Chino Basin Watermaster and the Inland Empire Utilities Agency (hereinafter, CBWM and IEUA, respectively) implement specific plans and projects, including surface and groundwater monitoring programs.

5. Pursuant to the Maximum Benefit Implementation Plan, Section A.1 and A.2, CBWM and IEUA were required to submit by January 23, 2005 proposed surface and groundwater monitoring programs for Regional Board approval. The Maximum Benefit Implementation Plan identifies the components that must be included in these monitoring programs, at a minimum. CBWM and IEUA submitted the proposed monitoring programs on February 20, 2004.

6. The proposed ground and surface water monitoring programs satisfy relevant requirements of the Maximum Benefit Implementation Plan for Salt Management in the Chino Basin and Cucamonga Basin, as specified in the Basin Plan.

7. The approved surface and groundwater monitoring plans must be implemented by CBWM and IEUA. Implementation of these programs is required in water recycling requirements issued to the CBWM and IEUA (Order No. R8-2005-0033) for the Phase I Chino Basin Recycled Water Groundwater Recharge Project on April 15, 2005.

NOW, THEREFORE, BE IT RESOLVED THAT:

The Regional Board approves the proposed surface and groundwater monitoring programs submitted by the CBWM and IEUA on February 20, 2004.

I, Gerard J. Thibeault, Executive Officer, do hereby certify that the foregoing is a full, true and correct copy of a resolution adopted by the California Regional Water Quality Control Board, Santa Ana Region, on April 15, 2005.

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Gerard J. Thibeault
Executive Officer

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February 20, 2004

Regional Water Quality Control Board
Mr. Gerard Thibeault, Executive Officer
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Riverside, CA 92501-3339

Subject: Draft **Chino Basin Maximum Benefit Implementation Plan for Salt Management and Commitments from the Chino Basin Watermaster and Inland Empire Utilities Agency**

Dear Mr. Thibeault:

The purpose of this letter is twofold. First, the Chino Basin Watermaster (Watermaster) and the Inland Empire Utilities Agency (IEUA) formally request "maximum benefit" groundwater objectives for Chino and Cucamonga Basin management zones, as described in the Regional Water Quality Control Board's (RWQCB) *Basin Plan Amendment, Attachment to Resolution No. R8-2004-0001.* Second, this letter describes the surface water and groundwater monitoring programs that are an integral part of the commitment by Watermaster and IEUA to salt management in Chino and Cucamonga Basins. This letter is in response to those commitments that have a compliance date of February 21, 2004: the surface water and groundwater monitoring programs. These two monitoring programs have a due date "30 days from date of approval of this amendment." The Basin Plan Amendment was adopted by the RWQCB on January 22, 2004, so these monitoring programs are due to the RWQCB on February 21, 2004.

The hydraulic control mitigation plan addressing potential hydraulic failure in the southern portion of Chino Basin has a due date "30 days from effective date of this Basin Plan amendment." According to *Resolution No. R8-2004-0001:*

> The Basin Plan amendment must be submitted for review and approval by the State Water Resources Control Board (SWRCB), and Office of Administrative Law (OAL) and U.S. Environmental Protection Agency (USEPA). Once approved by the SWRCB, the amendment is submitted to OAL and USEPA. *The Basin Plan amendment will become effective upon approval by OAL and USEPA.* [Emphasis added.]

Therefore, the hydraulic control mitigation plan will be submitted at a later date. As an aside, Watermaster and IEUA have addressed comments and revised the draft Hydraulic Control Monitoring Program (HCMP) work plan. The final work plan will be distributed within the next two weeks.

In addition to the two monitoring programs addressed herein, Watermaster and IEUA fully accept all the commitments listed in Table 5-8a of the *Basin Plan Amendment, Attachment to Resolution No. R8-2004-0001.* The work products addressing these commitments will be submitted at later dates. The remainder of this letter is comprised of the following sections:

Following are a list of tables and figures that can be found at the end of this letter:

1. INTRODUCTION

1.1 Watermaster and IEUA Basin Management Activities

The Chino Basin Watermaster completed development of the OBMP in 1999 and entered into the Peace Agreement on June 29, 2000. Among other things, the Peace Agreement provides for implementation of the OBMP. The hard work and cooperation among the stakeholders of the OBMP process has lead to the implementation of large-scale innovative water resources activities at unprecedented speed. Watermaster is implementing the following programs.

- ***Desalters.*** The Chino 1 desalter is being expanded from 8 to 10 mgd and will be operational by January 2005. The Chino 2 desalter will be constructed and operational by June 2005 at a capacity of 10 mgd. Environmental documentation for these projects has been certified and design is underway. Construction on the well field will begin this summer. These desalters will be owned and operated by the Chino Desalter Authority (CDA), a newly formed joint powers authority consisting of several Chino Basin producers. In the past, it has taken ten to twenty years to bring desalters from planning to operation in the upper Santa Ana River Watershed. Through the OBMP process, these new facilities will have gone from a management concept to operation in less than five years. Funding for the desalters will come from Proposition 13 and desalter water sales. An update on how and when an additional 20 mgd of desalter capacity will be constructed as part of the OBMP implementation is due to the Court in September of 2005.
- ***Recharge.*** Watermaster completed a recharge master plan in August 2001 that identified 19 existing storm water retention/conservation facilities and two new facilities that could be improved such that storm water recharge in the Chino Basin could be increased from about 5,600 acre-ft/yr to up to 25,000 acre-ft/yr and supplemental water recharge capacity would be increased to up to 80,000 acre-ft/yr. These recharge improvements are necessary to meet the operational demands on the Chino Basin. Watermaster monitoring of storm water suggests that the TDS and TIN concentration in storm water that will be recharged in the Chino Basin are about 100 mg/L and less than 1 mg/L, respectively. IEUA, on behalf of Watermaster, has retained a design consulting team to prepare the final designs for the recharge facility improvements such that these improvements can be constructed by June 30, 2004. The environmental documentation was certified by IEUA in Fall 2002. Construction began in Spring 2003. Funding for these improvements will come from Proposition 13 and Watermaster assessments.
- ***Storage and Recovery.*** Watermaster recently issued a request for proposals to solicit interest in participating in a storage and recovery program in the Chino Basin. Nine proposals were received from public water agencies and one private company to store water in the

Chino Basin for either dry-year yield or seasonal peaking needs. Watermaster is currently developing a storage program to use up to 500,000 acre-ft of unused Chino Basin storage to improve the dry-year yield capabilities of Chino Basin water supply agencies and water supply agencies located outside the Chino Basin. Water will be put into the basin through a combination of *in lieu* and physical recharge. A significant part of the water produced in dry years will pass through new groundwater treatment facilities, thereby removing contaminants from the Chino Basin. The benefits of this program are clearly statewide and arguably national in scale in that it will benefit the Sacramento Delta and the Colorado River watersheds, both of which are of federal interest. Watermaster is currently negotiating with the Metropolitan Water District of Southern California (Metropolitan) on the use of the first 100,000 acre-ft of unused Chino Basin storage. The Metropolitan program will include about 13 mgd of new nitrate removal facilities. IEUA, on behalf of Watermaster, completed the environmental process and a preliminary design for the Metropolitan program and for storage and recovery program alternatives up to 500,000 acre-ft at the end of 2003. Watermaster is planning to have the first 100,000 acre-ft part of the storage and recovery program operating soon thereafter.

- ***Recycled Water Reuse.*** Municipal and industrial water demands in the Chino Basin area are projected to grow from about 285,000 acre-ft/yr in 2000 to about 388,000 acre-ft/yr in 2020 (OBMP Peace Agreement Implementation Plan, Table 2, 2000). This growth is based on adopted general and specific plans prepared by the cities and counties with land use management responsibilities in the Chino Basin area. Recycled water reuse within the Chino Basin is necessary, given the limited future availability of state project water, to meet existing and future increased demands. The OBMP recycled water reuse plan contemplates the use of about 25,000 acre-ft/yr of direct use of recycled water for irrigation and industrial uses and up to 25,000 acre-ft/yr of recycled water recharge. The volume of recycled water reuse envisioned by IEUA is comparable to that estimated in the Santa Ana Watershed Project Authority (SAWPA) Water Resources Plan (SAWPA, 1998). In the SAWPA report, the volume of recycled water use in the Chino Basin was projected to reach about 21,200 acre-ft/yr in 2015 – about 5,000 acre-ft/yr of recharge and about 16,200 acre-ft/yr of direct use. IEUA completed a recycled water system feasibility report in January 2002 and is preparing environmental documentation for its proposed recycled water system. In the 2002 report, IEUA has described a recycling program that could expand reuse from about 5,600 acre-ft/yr in 2001 (500 acre-ft/yr of recharge and 5,100 acre-ft/yr of direct use) to as high as 71,000 acre-ft/yr in 2020 (28,000 acre-ft/yr of recharge and 43,000 acre-ft/yr of direct use). A draft environmental impact report was completed by IEUA in December 2002. IEUA has been successful in obtaining grants to help fund the proposed system.
- ***State Grants.*** IEUA successfully obtained an AB303 Local Groundwater Assistance Funding grant from the California Department of Water Resources (DWR). This grant for $250,000 will be used to help construct two sets of nested piezometers as part of the HCMP (discussed below). IEUA has applied for another AB303 grant to construct additional multi-level monitoring wells to help to define the Kaiser plume and to serve as an early warning for the Jurupa Community Services District (JCSD) well field.
- ***Other Initiatives.*** JCSD is planning to construct a series of groundwater nitrate removal plants with a combined capacity of 14 mgd. These plants will be operational in 2005. IEUA is in the process of helping JCSD obtain grants and low interest funding to construct these facilities.

These activities demonstrate that Chino Basin is a highly managed and high-value asset for its' in-basin producers and the people of the California. Watermaster and the stakeholders to the OBMP are acting responsibly in exercising their water management and stewardship obligations.

1.2 N/TDS Task Force and the Basin Plan Amendment

The TIN/TDS task force was formed in the mid 1990s to perform certain investigations that would lead to the establishment of new TIN and TDS objectives for groundwater basins in the Santa Ana River Watershed. The RWQCB, Chino Basin Watermaster, water-recycling agencies, and many other entities participated in the Task Force. The TIN and TDS objectives are based on a statistical analysis of well water quality data for the period 1954 to 1973 with the resulting well statistics volumetrically averaged to yield a new statistic for each water body. The basis for this approach is State Water Resources Control Board (SWRCB) Executive Order 68-16. The operating concept from Executive Order 68-16 is:

> "Whenever the existing quality of water is better than the quality established in policies as of the date on which such policies become effective, such existing high quality will be maintained until it has been demonstrated to the State that any change will be consistent with maximum benefit to the people of the State, will not unreasonably affect present and anticipated beneficial use of such water and will not result in water quality less than that prescribed in the policies."

The TIN/TDS Task Force published a report entitled TIN/TDS Study – Phase 2A, Final Technical Memorandum (WEI, 2000). The proposed objectives and associated water bodies for the Chino Basin are:

Chino Basin Management Zone	TDS Objective (mg/L)	TIN Objective (mg/L)
1	293	4.9
2	255	2.9
3	262	3.5
4	730	13.3
5	650	4.1

The management zones for the proposed objectives are identical to the management zones adopted by Watermaster in the OBMP and are shown in Figure 3-12 of the TIN/TDS Study – Phase 2A, Final Technical Memorandum, and are shown in Figure 1 herein. This report has also shown that there was no assimilative capacity in any of the management zones for TDS or TIN.

Watermaster and IEUA proposed using California Water Code Section 13241 and other criteria to establish TDS and TIN objectives in the Chino Basin. Section 13241 states the criteria that need to be considered in establishing water quality objectives other than the minimum requirement stated in Executive Order 68-16. Section 13241 states:

> "Each regional board shall establish such water quality objectives in water quality control plans as in its judgment will ensure the reasonable protection of beneficial uses and the prevention of nuisance; however, it is recognized that it may be possible for the quality of water to be changed to some degree without unreasonably affecting beneficial uses. Factors to be considered by a regional board in establishing water quality objectives shall include, but not necessarily be limited to, all of the following:
>
> (a) Past, present, and probable future beneficial uses of water.
>
> (b) Environmental characteristics of the hydrographic unit under consideration, including the quality of water available thereto.
>
> (c) Water quality conditions that could reasonably be achieved through the coordinated control of all factors which affect water quality in the area.
>
> (d) Economic considerations.
>
> (e) The need for developing housing within the region.

(f) The need to develop and use recycled water."

The Task Force modified the southern boundaries of Management Zones 1, 2, and 3 and the western boundary of management Zone 5 to accommodate a new management zone that it calls the Prado Basin Management Zone. Watermaster proposed that the remaining area in the Chino Basin be divided into Chino North, Chino East, and Chino South management zones instead of the five management zones presented in the TIN/TDS Study – Phase 2A, Final Technical Memorandum. Figure 1 shows the Watermaster proposed management zones and Figure 2 shows the modified management zones. Chino North consists of the remaining parts of Management Zones 1, 2 and 3. Chino East consists of Management Zone 4 and Chino South consists of Management Zone 5. The boundary between Chino North and South is generally an east-west line through the Desalter 1 and 2 well fields. Most, if not all, groundwater north of this internal boundary will be produced by wells north of the boundary or be captured by the desalter well fields. Most of the groundwater in the Chino South zone will be produced by the desalter wells or other wells located within the zone. The TDS and TIN objectives for the Chino Basin Management Zones in the Basin Plan Amendment are:

Chino Basin Management Zone	TDS (mg/L)			TIN (mg/L)		
	Objective	Current Ambient	Assimilative Capacity	Objective	Current Ambient	Assimilative Capacity
North	420	300	120	5.0	7.4	None
East	680	720	None	4.2	8.8	None
South	730	760	None	10	29.1	None

The current estimate listed above is an estimate of the volume-weighted quality in 1997. It is consistent with, and used the same data and computational methods as the current ambient concentrations listed in the TIN/TDS Study – Phase 2A, Final Technical Memorandum. The proposed TDS objective for Chino North is based on the long-term projection of the average TDS concentration in Chino North with the recycling program included in the OBMP. The proposed TIN objective is based on values that can accommodate planned recycled water recharge in Chino North without impairing beneficial uses in either management area.

The RWQCB requires strict irrevocable commitments that ensure that Watermaster and IEUA will take appropriate actions that are triggered by ambient water quality and other time-certain conditions. Watermaster and IEUA are forward thinking water resources management organizations and take their environmental stewardship responsibilities very seriously. These commitments are institutionalized in the Basin Plan Amendment (Table 5-8a), reproduced below. This letter is in response to those commitments that have a compliance date of February 21, 2004: the surface water monitoring program and the groundwater monitoring program. The *Basin Plan Amendment, Attachment to Resolution No. R8-2004-0001*, states:

> Table 5-8a identifies the projects and requirements that must be implemented to demonstrate that water quality consistent with maximum benefit to the people of the state will be maintained. An implementation schedule is also specified. The Regional Board will revise IEUA's waste discharge requirements, issue appropriate permits to the Chino Basin Watermaster, and utilize the authority provided by Section 13267 of the Water Code as necessary to require that these commitments be met. It is assumed that maximum benefit is demonstrated, and that the "maximum benefit" TDS and nitrate-nitrogen objectives apply to the Chino North and Cucamonga Management Zones as long as the schedule is being met. If the Regional Board determines that the maximum benefit program is not being implemented effectively in accordance with the schedule shown in Table 5-8a, then maximum benefit is not demonstrated, and the "antidegradation" TDS and nitrate-nitrogen objectives for the Chino 1, 2, and 3 and Cucamonga Management Zones apply. In this situation, the Regional Board will require mitigation for TDS and nitrate-nitrogen discharges to these management zones that took place in excess of limits based on the "antidegradation" objectives.

Table 5-8a
Chino Basin Maximum Benefit Commitments

Description of Commitment	Compliance Date (as soon as possible, but no later than)
1. Surface Water Monitoring Program	
a. Submit Draft Monitoring Program to Regional Board	a. (*30 days from date of approval of this amendment*)
b. Implement Monitoring Program	b. Within 30 days from date of Regional Board approval of monitoring plan
c. Quarterly data report submittal	c. April 15, July 15, October 15, January 15
d. Annual data report submittal	d. February 15th
2. Groundwater Monitoring Program	
a. Submit Draft Monitoring Program to Regional Board	a. (*30 days from date of approval of this amendment*)
b. Implement Monitoring Program	b. Within 30 days from date of Regional Board approval of monitoring plan
c. Annual data report submittal	c. February 15th
3. Chino Desalters	
a. Chino 1 desalter expansion to 10 MGD	a. Prior to recharge of recycled water
b. Chino 2 desalter at 10 MGD design	b. Recharge of recycled water allowed once award of contract and notice to proceed issued for construction of desalter treatment plant
4. Future desalters plan and schedule submittal	October 1, 2005 Implement plan and schedule upon Regional Board approval
5. Recharge facilities (17) built and in operation	June 30, 2005
6. IEUA wastewater quality improvement plan and schedule submittal	60 days after agency-wide 12 month running average effluent TDS quality equals or exceeds 545 mg/L for 3 consecutive months or agency-wide 12 month running average TIN equals or exceeds 8 mg/L in any month. Implement plan and schedule upon approval by Regional Board
7. Recycled water will be blended with other recharge sources so that the 5-year running average TDS and nitrate-nitrogen concentrations of water recharged are equal to or less than the "maximum benefit" water quality objectives for the affected Management Zone (Chino North or Cucamonga)	Compliance must be achieved by end of 5th year after initiation of recycled water recharge operations.
a. Submit a report that documents the location, amount of recharge, and TDS and nitrogen quality of stormwater recharge before the OBMP recharge improvements were constructed and what is projected to occur after the recharge improvements are completed	a. Prior to initiation of recycled water recharge
b. Submit documentation of amount, TDS and nitrogen quality of all sources of recharge and recharge locations. For stormwater recharge used for blending, submit documentation that the recharge is the result of CBW/IEUA enhanced recharge facilities.	b. Annually, by February 15th, after initiation of construction of basins/other facilities to support enhanced stormwater recharge.

Table 5-8a
Chino Basin Maximum Benefit Commitments

Description of Commitment	Compliance Date (as soon as possible, but no later than)
8. Hydraulic Control Failure	
a. Plan and schedule to correct loss of hydraulic control	a. 60 days from Regional Board finding that hydraulic control is not being maintained
b. Achievement and maintenance of hydraulic control	b. In accordance with plan and schedule approved by Regional Board. The schedule shall assure that hydraulic control is achieved as soon as possible but no later than 180 days after loss of hydraulic control is identified.
c. Mitigation plan for temporary failure to achieve/maintain hydraulic control	c. By *(*30 days from effective date of this Basin Plan amendment*)*. Implement plan upon Regional Board determination that hydraulic control is not being maintained.
9. Ambient groundwater quality determination	July 1, 2005 and every 3 years thereafter

2. SURFACE WATER MONITORING PROGRAM

2.1 Basin Plan Amendment, Attachment to Resolution No. R8-2004-0001

The Chino Basin Watermaster (Watermaster), in conjunction with staff of the Orange County Water District and Regional Board, has developed a proposed surface water monitoring program. By (*30 days from date of approval of this amendment) and prior to the discharge of recycled water to the Chino Basin, Watermaster shall submit the recommended surface water monitoring program to the Regional Board for approval. The monitoring program must be implemented within 30 days of Regional Board approval, and six months of data must be generated prior to the discharge of recycled water to the Chino Basin.

At a minimum, the surface water monitoring program shall include the collection of bi-weekly measurements of general minerals and nitrogen components at the locations listed in Table 5-8b. Data reports shall be submitted to the Regional Board Executive Officer by April 15, July 15, October 15, and January 15 each year. An annual report summarizing all data collected for the year and evaluating compliance with relevant surface water objectives shall be submitted by February 15th of each year.

2.2 Surface Water Stations

Table 1, *Surface Water Monitoring Sites for Chino Basin Maximum Benefit Implementation Plan for Salt Management*, was revised from Table 5-8b in the *Basin Plan Amendment, Attachment to Resolution No. R8-2004-0001* in the following manner:

- Column 1, "Station Type," was added to clearly distinguish types of surface water stations.
- Column 2, "WE_ID," is the unique identifier in Watermaster's database.
- Column 4 is an expanded description of the surface water station.
- Column 5 was renamed from "Owner" to "Data Provider." In cases where Table 5-8b listed the same station twice with different owners (*e.g.*, Santa Ana River below Prado), Table 2 lists the station once, but notes that there may be more than one data provider.
- The discharge monitoring frequency was updated to reflect the programs currently in place or that are planned (*e.g.*, the discharge at the Santa Ana River below Prado was changed from bi-weekly to daily).

- Some of the *Ad Hoc Stations – OCWD* are or were project related. OCWD will provide the data that are developed as part of these projects.
- A footnote was added to clarify that bi-weekly means every two weeks, and not twice per week.
- USGS Gauging Station 11073440, Chino Creek near Chino, was removed from the program because it has not been gauged by the USGS since 1969.
- The following active USGS gauging stations have been added to the program:
  - 11073300 San Antonio Creek at Riverside Drive
  - 11073360 Chino Creek at Schaefer Avenue
  - 11073493 West Branch of Cucamonga Channel above the Ely Basins

The surface water stations are shown in Figure 3.

2.3 Coordination with Other Agencies/Data Providers

IEUA and Watermaster will coordinate with the other data providers (USGS, OCWD, and other dischargers) to obtain their data on an on-going basis. These data will be quality control (QC) checked and loaded into Watermaster's database. There are two types of quality checks to be performed. The first is the typical data verification based on data formats and data integrity before upload. This type of QC check will not necessarily identify data content errors. The second QC check would verify data content using techniques such as graphical analysis of the water quality and stage data to be appended, automated check of anion-cation balance for water quality data, and review of outliers outside of minimum-maximum ranges of existing data. Only through the use of these and similar QC techniques will these data content errors be identified.

2.4 Sampling and Analysis Plan for IEUA/Watermaster-Generated Data

Watermaster and IEUA have already committed to conducting surface water flow measurements and grab water quality samples at five *ad hoc* stations on or discharging to the Santa Ana River as part of the HCMP:

- HOLE_LK-SAR – Hole Lake Discharge at Santa Ana River
- SAR-VANBUREN – Santa Ana River at Van Buren
- SAR-ETIWANDA – Santa Ana River at Etiwanda
- SAR-HAMNER – Santa Ana River at Hamner
- SAR-RIVER_RD – Santa Ana River at River Road

Watermaster staff conducted a site visit to the *ad hoc* stations to assess their suitability for stream gauging. Watermaster contracted with the USGS to conduct initial gauging measurements from July to September 2003. In late 2003, Watermaster decided to expand the scope of the discharge monitoring to year-round, weather and safety permitting. USGS trained Watermaster staff to conduct stream flow measurements on November 13, 2003. Measurements will be completed throughout the year, every two weeks (weather permitting). Safety concerns exist during wet-weather flows.

The stream flow measurements at the *ad hoc* stations will be made using a current meter and will follow procedures outlined in Buchanan and Somers (1969). A cross-section normal to the stream will be established at each station. At specified points along the cross section, the velocity will be measured by a current meter to obtain the mean of the vertical distribution of velocity. The "two-point" method will be used when stream depths are greater than about 2.5 feet, while the "six-tenths-depth" method will be used when stream depths are less than about 2.5 feet. In the "two-point" method, observations are made at 0.2 and 0.8 of the depth below the water surface. The average of these two observations has been

found to approximate well the mean vertical average through empirical studies. In the "six-tenths-depth" method, a single observation at 0.6 of the depth below the water surface is used and is a good approximation of the mean velocity for shallow streams. Discharges are computed using mean velocities and cross sectional areas for each of areas defined by the observation points. These individual discharges are summed to provide an estimate of discharge for the stream.

Watermaster staff will collect grab samples at the *ad hoc* stations and at the permanent USGS stations bi-weekly. The samples at the *ad hoc* stations will be coordinated with the stream gauging and will occur at the same time.

2.4.1 Sample Labeling

Sample labels will be filled out with indelible ink and uniquely numbered. Water samples will be capped immediately following collection. Labels may be partially completed prior to sample collection. The date, time, sampler's initials, and the sample identification number should not be completed until the time of sample collection. At a minimum, each numbered label shall contain the following information:

- Project name;
- Project number;
- Station Name (WE_ID);
- Date and time of sample collection;
- Sampler's initial;
- Analyses required; and
- Preservatives (if applicable).

2.4.2 Sample Handling

Samples will be placed in sealable plastic bags and stored in a cooler chilled to approximately 4°C. At the end of the workday, the cooler will be picked up at Watermaster's office by a bonded courier and delivered to the designated analytical laboratory for testing. Sample transportation will follow EPA and Department of Transportation (DOT) regulations.

Water samples will be collected in appropriate containers supplied by the analytical laboratory. Water samples will be placed on ice or a chemical ice substitute in a portable insulated cooler immediately following sample collection. Preservatives required for water samples will be added to the appropriate container by the laboratory prior to sample collection.

2.4.3 Sample Packaging

A completed chain-of-custody form for each cooler will be prepared and placed in a resealable plastic bag and taped to the inside of the cooler lid. Coolers will be wrapped with strapping tape at two locations to secure lids.

2.4.4 Sample Documentation

Documentation of observations and data acquired in the field will provide information on the acquisition of samples and a permanent record of field activities. The observations and data will be recorded with indelible ink in a permanently bound weatherproof field book with consecutively numbered pages and, if applicable, on field sampling data sheets.

The information in the field book will include the following as a minimum:

- Project name;
- Location of sample;
- Sampler's signature;
- Date and time of sample collection;
- Sample identification numbers and sample depth (if applicable);
- Description of samples (matrix sampled);
- Analysis to be performed;
- Number and volume of samples;
- Description of quality assurance/quality control (QA/QC) samples (if collected);
- Sample methods;
- Sample handling;
- Field observations; and
- Personnel and equipment present.

Changes or deletions in the field book should be lined out with a single strike mark, initialed, and dated by person making change, and remain legible. Sufficient information should be recorded to allow the sampling event to be reconstructed without relying on the sample collector's memory. The person making the entry will sign each page of the field book. Anyone making entries in another person's field book will sign and date those entries.

2.4.5 Sample Tracking

During field sampling activities, traceability of the sample must be maintained from the time the samples are collected until laboratory data are issued. Information on the custody, transfer, handling, and shipping of samples will be recorded on a Chain-of-Custody (CoC) form. The CoC is a one-page form.

The sample handler will be responsible for initiating and filling out the CoC form. The sampler will sign the CoC when the sampler relinquishes the samples to anyone else, including the bonded courier. A CoC form will be completed for each cooler of samples collected daily, and will contain the following information:

- Sampler's signature and affiliation;
- Project number;
- Date and time of collection;
- Sample identification number;
- Sample type/matrix;
- Analyses requested;
- Number of containers;
- Person to contact regarding analyses;
- Signature of persons relinquishing custody, dates, and times;
- Signature of persons accepting custody, dates, and times (laboratory); and

- Method of shipment.

The person responsible for delivery of the samples to the laboratory will sign the CoC form and document the method shipment. Upon receipt at the laboratory, the person receiving the samples will sign the CoC form. Copies of the CoC forms and all custody documentation will be received and kept in the central files. The original CoC forms will remain with the samples until final disposition of the samples by the laboratory. The analytical laboratory will dispose of the samples in an appropriate manner 60 to 90 days after data reporting. After sample disposal, a copy of the original CoC will be sent to the Project Manager by the analytical laboratory to be incorporated into the central files.

2.4.6 Quality Control/Quality Assurance Samples

QA/QC samples will be collected at a frequency of 5 percent. These replicate samples will be analyzed for the full suite of analytes.

2.4.7 Analyze Samples

Watermaster will solicit proposals from qualified and licensed environmental laboratories to provide analytical testing of water samples for the parameters listed below. The selected laboratory will be certified under both the Environmental Laboratory Accreditation Program (ELAP) and National Environmental Laboratory Accreditation Conference (NELAC).

- The California Environmental Laboratory Improvement Act (Department-sponsored Assembly Bill 3739, Chapter 894, Statutes of 1988) took effect on January 1, 1989 and the ELAP is administered through the DHS. Under the Act, accreditation is required of an environmental laboratory for producing analytical data for California regulatory agencies.
- NELAC is sponsored by the US Environmental Protection Agency (EPA) as a voluntary association of state and federal officials to foster the generation of environmental laboratory data of known and documented quality through the adoption of national performance standards for environmental laboratories accredited under the National Environmental Laboratory Accreditation Program (NELAP).

The laboratory selected shall designate a project manager for this monitoring program. There will be no change in project manager during the duration of this contract without prior written approval by Watermaster. The project manager's responsibilities will include ensuring that appropriate quality control/quality assurance procedures are strictly followed, that the samples are processed in a timely manner, and that all reporting is done according to the scope of work. The project manager will serve as the point-of-contact between Watermaster staff and the analytical laboratory.

The analytical laboratory shall not subcontract any work without the prior written permission from Watermaster. Proper subcontractor chain-of-custody procedures must be followed if samples are sent to a subcontract laboratory.

The analytical laboratory shall invoice Watermaster on a monthly basis. The invoice shall include the following information, at a minimum:

- invoice number;
- date of invoice;
- invoice period;
- client name (Watermaster);
- project name;
- purchase order (PO) or contract number;

- matrix or table with the following columns:
  - samples analyzed during invoice period
  - dates the samples were collected, received, and analyzed
  - test procedures
  - price
  - surcharge (if any)
  - test total
- total cost for the current invoice period;
- project not-to-exceed amount;
- remaining budget.

The invoice must be signed by laboratory's project manager.

All water samples will be tested for the following:

- General Minerals; and
- General Physical.

2.4.8 Sample Containers

The analytical laboratory shall provide all necessary new or certified-clean sample bottles required for the sampling program (Sample containers and preservatives are listed in Table 2). The analytical laboratory shall provide sample labels for all sample bottles. Reagent-grade preservatives shall be added to the appropriate sample containers. To the extent logistically possible, these bottles shall be pre-labeled, identifying – at a minimum – the analyses requested and the preservative used, if any. The analytical laboratory shall actively participate in a sample container quality assurance program. The analytical laboratory shall provide appropriately-sized coolers and sufficient chemical ice. Up to 20 coolers can be stored at Watermaster in advance of sampling.

2.4.9 Sample Control

Any sample received by the analytical laboratory in an unacceptable condition shall be reported to the designated contact person on Watermaster staff within 48 hours. Likewise, Watermaster shall be notified if any samples become unusable while in the laboratory's possession – this includes violations of holding times. The analytical laboratory shall be responsible for all costs associated with re-sampling that is deemed necessary through errors caused by the analytical laboratory.

2.4.10 Laboratory Quality Control

The analytical laboratory must maintain rigorous QA/QC procedures. Laboratory procedures are documented by the analytical laboratory. Internal QC procedures for analytical services will be conducted by the analytical laboratory in accordance with their corporate QA plan and standard operating procedures (SOPs). These specifications include the types of QC checks or standards required (sample spikes, surrogate spikes, reference samples, controls), the frequency of each QC check or standard, the compounds to be used for sample spikes and surrogate spikes, and the QC acceptance criteria for these QC checks or standards.

Requirements for precision and accuracy are listed in Table 3. The requirements for relative percent differences between duplicate samples for key analytes – applicable if concentrations exceed 10 times the reporting limit– are also listed in Table 3.

The laboratory will document that analytical QC functions have been met in each data package. If the laboratory procedures were not in control as assessed by laboratory control samples and other data

specific to the analysis and if sufficient sample volume is available, samples analyzed in nonconformance with the QC criteria will be reanalyzed by the laboratory. It is expected that sufficient volume of samples will be collected for reanalysis. The laboratory will follow the corrective action guidelines provided in their standard operating procedures. The following information must be included in the laboratory's QA/QC manual or as separate documentation:

- copy of certificate that laboratory is currently certified in the State of California Department of Health Services ELAP;
- copy of certificate that the laboratory is currently certified to perform perchlorate analyses with low detection limits under the DHS ELAP;
- fields of testing (FOT) for which the laboratory holds an ELAP accreditation;
- sample preservation, holding times, sample containers (type and number) per analyte group;
- internal chain-of-custody procedures (sample receipt and tracking);
- record keeping protocols;
- maintenance and calibration of instruments;
- use of standards and references;
- internal QC procedures, including corrective actions;
- determination of method detection limits (MDLs);
- determination of minimum reporting levels (MRLs);
- sample container QC program;
- data flags, qualifiers, reporting procedures;
- laboratory information management system (LIMS) and data reports;
- laboratory organization chart; and
- resumes of key personnel.

2.4.11 Reporting and Information Management

The analytical laboratory shall provide hard copy laboratory reports of the analyses of each of the samples. The report shall contain, at a minimum:

- sample name;
- sample number;
- date and time sampled;
- date and time extracted and/or prepared;
- date and time analyzed;
- analysis method;
- dilutions (if appropriate);
- results of duplicates;
- analytes;
- species of analyte as reported (e.g., nitrate as NO3 or nitrate as N);
- reporting limits;
- units;

- results; and
- qualifier(s).

The hard copy laboratory report shall be submitted to Watermaster within 30 days of the receipt of the sample by the laboratory. A copy of the chain-of-custody shall be attached to the hard copy report. Watermaster reserves the right to assess a late-fee of one (1) percent per day that the reports exceed the delivery due date. Electronic data reports must be submitted within 45 days of the receipt of the sample by the laboratory. Electronic data reports will be queried from the LIMS on a once-a-month basis.

The electronic data report will be electronically-mailed (e-mailed) to the following addresses:

- Joe LeClaire (WEI) [jleclaire@wildh2o.com]
- Frank Yada (WEI) [fyada@wildh2o.com]
- Doris Reilly (OCWD) [dreilly@ocwd.com]

2.4.12 Record Keeping and Archival of Reports

The analytical laboratory shall maintain all documents, raw data, and supporting QC data for the analyses associated with this project for a minimum of ten (10) years. The analytical laboratory must supply all pertinent data to Watermaster within one (1) week of a written request without any additional cost to Watermaster. The analytical laboratory shall not disclose the results of the analyses or disseminate data or copies of any reports without written permission from Watermaster.

2.4.13 Disposal and Waste Handling

The analytical laboratory shall comply with all applicable Federal, State, and local regulations and laws concerning the disposal of Watermaster's samples and associated laboratory waste.

2.5 Reporting

Data reports shall be submitted to the Regional Board Executive Officer by April 15, July 15, October 15, and January 15 each year. An annual report summarizing all data collected for the year and evaluating compliance with relevant surface water objectives shall be submitted by February 15th of each year. As part of the final report, Watermaster will prepare and submit all water quality-related and piezometric data generated by the project to the State Board's Information Services Branch for entry into the State Water Quality Information System (SWQIS) and EPA's STORET. Data will be submitted to the State Board Information Services on computer diskette, by electronic mail, or through Watermaster's file transfer protocol (FTP) site. Watermaster will also be responsible for verification of data quality.

3. GROUNDWATER MONITORING PROGRAM

3.1 Basin Plan Amendment, Attachment to Resolution No. R8-2004-0001

> The purpose of the Groundwater Monitoring Program is to (1) identify potential impacts from implementation of the Chino Basin "maximum benefit" water quality objectives on water levels and water quality within the Chino Basin and in downgradient basins and (2) determine whether hydraulic control (see # 8, below) is being achieved and maintained. By (within 30 days from date of approval of this amendment) and prior to the discharge of recycled water to the Chino Basin, Watermaster shall submit to the Regional Board for approval a proposed groundwater monitoring program to determine hydraulic control and ambient water quality in the Chino North and Cucamonga Management Zones. Within 30 days of Regional Board approval of the monitoring plan, the groundwater monitoring program must be implemented.
>
> An annual report, including all raw data and summarizing the results of the approved groundwater monitoring program, shall be submitted to the Regional Board by February 15th of each year.

By July 1, 2005, and every three years thereafter, Watermaster shall submit a determination of ambient TDS and nitrate-nitrogen quality in the Chino North and Cucamonga Management Zones. This determination shall be accomplished using methodology consistent with the determinations (20-year running averages) used by the TDS/Nitrogen Task Force to develop the "antidegradation" TDS and nitrate-nitrogen water quality objectives for groundwater subbasins within the Region. [Ref. 1].

3.2 Key Well Program

Key wells were selected to characterize groundwater flow and quality in the southern portion of the basin, near the desalter well fields. Watermaster is implementing two key well monitoring programs: one for water level measurements and one for groundwater quality. The key wells selected in the two programs are not identical because of different criteria used to select the wells to meet certain objectives. The criteria used to select the water-level key wells are:

- Wells in the key well program were chosen to have a spatial distribution such that water elevation contour maps drawn using data from these wells only were comparable to the existing map using all wells in the following respects:
  - regional (study area) gradients were comparable, and
  - local pumping depressions were represented by the key well program.
- Wells with construction information (perforated intervals) were selected preferentially over other wells.
- The time histories of water elevations were compared for adjacent or nearby wells to determine if there were differences in responses to aquifer stresses over time that may indicate that the wells are perforated in different aquifer zones, especially on the southwest side of Chino Basin. In that situation, both wells were retained in the key well program.
- The density of key wells near the desalter well fields is greater than outlying wells.
- Watermaster has already ensured that all private wells have access ports for groundwater level sounders and that reference points are marked and well documented.

Key wells were also selected for the water quality monitoring program. The steps taken in determining the key wells were:

- The basin was divided into a grid, with each cell measuring approximately 2000 by 2000 meters.
- For each cell, the average TDS and NO_3 values were calculated (using the last five years of available data).
- The water quality of each individual well will was then examined. Wells most closely matching the average constituent concentrations were chosen as representative. One to two wells in each grid square were retained. Preference was given to wells with the following characteristics:

  Known construction;

  Choice as a water level key well;

  Likelihood of surviving the regional development.
- The density of key wells near the desalter well fields is greater than outlying wells.
- Basin wide TDS and NO_3 arithmetic averages were recalculated using just the key wells and compared to the total basin arithmetic averages. New maps were made representing the water quality conditions of the key wells and qualitatively compared to the original basin maps.

The two key well programs are listed in Tables 4 and 5 and shown in Figures 4 and 5. The key well program for water levels is a subset of all the wells where water levels are measured and recorded. Table 4 and Figure 4 list and show all the wells in the water level monitoring program.

3.3 Coordination with Other Agencies/Data Providers

As part of the OBMP, the Watermaster has implemented a data collection and management program to acquire all groundwater production, level, and quality data from appropriator and overlying non-agricultural wells in Chino Basin. Together with Watermaster's on-going groundwater monitoring program of private wells, this provides Watermaster with a comprehensive groundwater management program for the entire basin. These wells are also shown in Figure 5. As part of this data management program, Watermaster has developed the Chino Basin Relational Database (CBDB) comprised of two data collection components:

- The first is the verification and update of well records. Watermaster is currently in the process of meeting with agencies in the appropriative and overlying non-agricultural pools. In particular, the location and status (and other) information of each well is being compared to each agency's records.
- The second component of the project is to arrange for electronic transfer of water quality and level data from each agency to the Watermaster. The data will in turn be uploaded into CBDB. These data will be quality control (QC) checked and loaded into Watermaster's database. There are two types of quality checks to be performed. The first is the typical data verification based on data formats and data integrity before upload. This type of QC check will not necessarily identify data content errors. The second QC check would verify data content using techniques such as graphical analysis of the water quality and stage data to be appended, automated check of anion-cation balance for water quality data, and review of outliers outside of minimum-maximum ranges of existing data. Only through the use of these and similar QC techniques will these data content errors be identified.

3.4 Sampling and Analysis Plan for IEUA/Watermaster-Generated Data

Watermaster's on-going key well groundwater quality program consists of sampling the approximately 114 key wells for general minerals and general physical analyses – the list of analytes is provided in Section 3.4.7. Approximately 55 wells will be sampled annually, such that all wells in the program will be sampled every two years. As wells are lost to urbanization and development, they will be replaced in the key well program with nearby wells using the criteria discussed in Section 3.2. In addition to the general minerals and general physical analyses, wells that are within the known volatile organic chemical (VOC) plumes or that are just downgradient, will be sampled for VOCs as well. The three plume locations are downgradient of the California Institute for Men (CIM), the Chino Airport, and south of the Ontario International Airport. The wells that will be sampled for VOCs are listed in Table 5.

3.4.1 Sample Labeling

Sample labels will be filled out with indelible ink and uniquely numbered. Water samples will be capped immediately following collection. Labels may be partially completed prior to sample collection. The date, time, sampler's initials, and the sample identification number should not be completed until the time of sample collection. At a minimum, each numbered label shall contain the following information:

- Project name;
- Project number;
- Station Name (WE_ID);
- Date and time of sample collection;

- Sampler's initial;
- Analyses required; and
- Preservatives (if applicable).

3.4.2 Sample Handling

Samples will be placed in sealable plastic bags and stored in a cooler chilled to approximately 4°C. At the end of the workday, the cooler will be picked up at Watermaster's office by a bonded courier and delivered to the designated analytical laboratory for testing. Sample transportation will follow EPA and Department of Transportation (DOT) regulations.

Water samples will be collected in appropriate containers supplied by the analytical laboratory. Water samples will be placed on ice or a chemical ice substitute in a portable insulated cooler immediately following sample collection. Preservatives required for water samples will be added to the appropriate container by the laboratory prior to sample collection. Watermaster will ensure that samples collected for VOC analyses will have zero headspace.

3.4.3 Sample Packaging

A completed chain-of-custody form for each cooler will be prepared and placed in a resealable plastic bag and taped to the inside of the cooler lid. Coolers will be wrapped with strapping tape at two locations to secure lids.

3.4.4 Sample Documentation

Documentation of observations and data acquired in the field will provide information on the acquisition of samples and a permanent record of field activities. The observations and data will be recorded with indelible ink in a permanently bound weatherproof field book with consecutively numbered pages and, if applicable, on field sampling data sheets.

The information in the field book will include the following as a minimum:

- Project name;
- Location of sample;
- Sampler's signature;
- Date and time of sample collection;
- Sample identification numbers and sample depth (if applicable);
- Description of samples (matrix sampled);
- Analysis to be performed;
- Number and volume of samples;
- Description of quality assurance/quality control (QA/QC) samples (if collected);
- Sample methods;
- Sample handling;
- Field observations; and
- Personnel and equipment present.

Changes or deletions in the field book should be lined out with a single strike mark, initialed, and dated by person making change, and remain legible. Sufficient information should be recorded to allow the

sampling event to be reconstructed without relying on the sample collector's memory. The person making the entry will sign each page of the field book. Anyone making entries in another person's field book will sign and date those entries.

3.4.5 Sample Tracking

During field sampling activities, traceability of the sample must be maintained from the time the samples are collected until laboratory data are issued. Information on the custody, transfer, handling, and shipping of samples will be recorded on a Chain-of-Custody (CoC) form. The CoC is a one-page form.

The sample handler will be responsible for initiating and filling out the CoC form. The sampler will sign the CoC when the sampler relinquishes the samples to anyone else, including the bonded courier. A CoC form will be completed for each cooler of samples collected daily, and will contain the following information:

- Sampler's signature and affiliation;
- Project number;
- Date and time of collection;
- Sample identification number;
- Sample type/matrix;
- Analyses requested;
- Number of containers;
- Person to contact regarding analyses;
- Signature of persons relinquishing custody, dates, and times;
- Signature of persons accepting custody, dates, and times (laboratory); and
- Method of shipment.

The person responsible for delivery of the samples to the laboratory will sign the CoC form and document the method shipment. Upon receipt at the laboratory, the person receiving the samples will sign the CoC form. Copies of the CoC forms and all custody documentation will be received and kept in the central files. The original CoC forms will remain with the samples until final disposition of the samples by the laboratory. The analytical laboratory will dispose of the samples in an appropriate manner 60 to 90 days after data reporting. After sample disposal, a copy of the original CoC will be sent to the Project Manager by the analytical laboratory to be incorporated into the central files.

3.4.6 Quality Control/Quality Assurance Samples

QA/QC samples will be collected at a frequency of 5 percent. These replicate samples will be analyzed for the full suite of analytes.

3.4.7 Analyze Samples

Watermaster will solicit proposals from qualified and licensed environmental laboratories to provide analytical testing of water samples for the parameters listed below. The selected laboratory will be certified under both the Environmental Laboratory Accreditation Program (ELAP) and National Environmental Laboratory Accreditation Conference (NELAC).

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administered through the DHS. Under the Act, accreditation is required of an environmental laboratory for producing analytical data for California regulatory agencies.

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The analytical laboratory shall not subcontract any work without the prior written permission from Watermaster. Proper subcontractor chain-of-custody procedures must be followed if samples are sent to a subcontract laboratory.

The analytical laboratory shall invoice Watermaster on a monthly basis. The invoice shall include the following information, at a minimum:

- invoice number;
- date of invoice;
- invoice period;
- client name (Watermaster);
- project name;
- purchase order (PO) or contract number;
- matrix or table with the following columns:
  - samples analyzed during invoice period
  - dates the samples were collected, received, and analyzed
  - test procedures
  - price
  - surcharge (if any)
  - test total
- total cost for the current invoice period;
- project not-to-exceed amount;
- remaining budget.

The invoice must be signed by laboratory's project manager.

All water samples will be tested for the following analytes:

- General Minerals; and
- General Physical.
- Perchlorate; and
- VOCs (for wells indicated in Table 5).

3.4.8 Sample Containers

The analytical laboratory shall provide all necessary new or certified-clean sample bottles required for the sampling program (Sample containers and preservatives are listed in Table 2). The analytical laboratory shall provide sample labels for all sample bottles. Reagent-grade preservatives shall be added to the appropriate sample containers. To the extent logistically possible, these bottles shall be pre-labeled, identifying – at a minimum – the analyses requested and the preservative used, if any. The analytical laboratory shall actively participate in a sample container quality assurance program. The analytical laboratory shall provide appropriately-sized coolers and sufficient chemical ice. Up to 20 coolers can be stored at Watermaster in advance of sampling.

3.4.9 Sample Control

Any sample received by the analytical laboratory in an unacceptable condition shall be reported to the designated contact person on Watermaster staff within 48 hours. Likewise, Watermaster shall be notified if any samples become unusable while in the laboratory's possession – this includes violations of holding times. The analytical laboratory shall be responsible for all costs associated with re-sampling that is deemed necessary through errors caused by the analytical laboratory.

3.4.10 Laboratory Quality Control

The analytical laboratory must maintain rigorous QA/QC procedures. Laboratory procedures are documented by the analytical laboratory. Internal QC procedures for analytical services will be conducted by the analytical laboratory in accordance with their corporate QA plan and standard operating procedures (SOPs). These specifications include the types of QC checks or standards required (sample spikes, surrogate spikes, reference samples, controls), the frequency of each QC check or standard, the compounds to be used for sample spikes and surrogate spikes, and the QC acceptance criteria for these QC checks or standards.

Requirements for precision and accuracy are listed in Table 3. The requirements for relative percent differences between duplicate samples for key analytes – applicable if concentrations exceed 10 times the reporting limit– are also listed in Table 3.

The laboratory will document that analytical QC functions have been met in each data package. If the laboratory procedures were not in control as assessed by laboratory control samples and other data specific to the analysis and if sufficient sample volume is available, samples analyzed in nonconformance with the QC criteria will be reanalyzed by the laboratory. It is expected that sufficient volume of samples will be collected for reanalysis. The laboratory will follow the corrective action guidelines provided in their standard operating procedures. The following information must be included in the laboratory's QA/QC manual or as separate documentation:

- copy of certificate that laboratory is currently certified in the State of California Department of Health Services ELAP;
- copy of certificate that the laboratory is currently certified to perform perchlorate analyses with low detection limits under the DHS ELAP;
- fields of testing (FOT) for which the laboratory holds an ELAP accreditation;
- sample preservation, holding times, sample containers (type and number) per analyte group;
- internal chain-of-custody procedures (sample receipt and tracking);
- record keeping protocols;
- maintenance and calibration of instruments;
- use of standards and references;

- internal QC procedures, including corrective actions;
- determination of method detection limits (MDLs);
- determination of minimum reporting levels (MRLs);
- sample container QC program;
- data flags, qualifiers, reporting procedures;
- laboratory information management system (LIMS) and data reports;
- laboratory organization chart; and
- resumes of key personnel.

3.4.11 Reporting and Information Management

The analytical laboratory shall provide hard copy laboratory reports of the analyses of each of the samples. The report shall contain, at a minimum:

- sample name;
- sample number;
- date and time sampled;
- date and time extracted and/or prepared;
- date and time analyzed;
- analysis method;
- dilutions (if appropriate);
- results of duplicates;
- analytes;
- species of analyte as reported (e.g., nitrate as NO3 or nitrate as N);
- reporting limits;
- units;
- results; and
- qualifier(s).

The hard copy laboratory report shall be submitted to Watermaster within 30 days of the receipt of the sample by the laboratory. A copy of the chain-of-custody shall be attached to the hard copy report. Watermaster reserves the right to assess a late-fee of one (1) percent per day that the reports exceed the delivery due date. Electronic data reports must be submitted within 45 days of the receipt of the sample by the laboratory. Electronic data reports will be queried from the LIMS on a once-a-month basis.

The electronic data report will be electronically-mailed (e-mailed) to the following addresses:

- Joe LeClaire (WEI) [jleclaire@wildh2o.com]
- Frank Yada (WEI) [fyada@wildh2o.com]
- Doris Reilly (OCWD) [dreilly@ocwd.com]

As part of the final report, Watermaster will prepare and submit all water quality-related and piezometric data generated by the project to the State Board's Information Services Branch for entry into the State Water Quality Information System (SWQIS) and EPA's STORET. Data will be submitted to the State

Board Information Services on computer diskette, by electronic mail, or through Watermaster's file transfer protocol (FTP) site. Watermaster will also be responsible for verification of data quality.

3.4.12 Record Keeping and Archival of Reports

The analytical laboratory shall maintain all documents, raw data, and supporting QC data for the analyses associated with this project for a minimum of ten (10) years. The analytical laboratory must supply all pertinent data to Watermaster within one (1) week of a written request without any additional cost to Watermaster. The analytical laboratory shall not disclose the results of the analyses or disseminate data or copies of any reports without written permission from Watermaster.

3.4.13 Disposal and Waste Handling

The analytical laboratory shall comply with all applicable Federal, State, and local regulations and laws concerning the disposal of Watermaster's samples and associated laboratory waste.

3.5 Reporting

An annual report, including all raw data and summarizing the results of the approved groundwater monitoring program, shall be submitted to the Regional Board by February 15th of each year. As part of the final report, Watermaster will prepare and submit all water quality-related and piezometric data generated by the project to the State Board's Information Services Branch for entry into the State Water Quality Information System (SWQIS) and EPA's STORET. Data will be submitted to the State Board Information Services on computer diskette, by electronic mail, or through Watermaster's file transfer protocol (FTP) site. Watermaster will also be responsible for verification of data quality.

By July 1, 2005, and every three years thereafter, Watermaster shall submit a determination of ambient TDS and nitrate-nitrogen quality in the Chino North and Cucamonga Management Zones. This determination shall be accomplished using methodology consistent with the determinations (20-year running averages) used by the TDS/Nitrogen Task Force to develop the "antidegradation" TDS and nitrate-nitrogen water quality objectives for groundwater subbasins within the Region.

Watermaster and IEUA believe that this proposal, including our proposed objectives and our commitments, will promote maximum beneficial use of the waters of the State and protect downstream water quality. Watermaster and IEUA respectfully request that you consider this proposal for inclusion in the Basin Plan update process that is currently underway. Please call me if you have any questions regarding our proposal.

Very truly yours,

Chino Basin Watermaster

John V. Rossi
Chief Executive Officer

Inland Empire Utilities Agency

Richard Atwater
General Manager

Encl.

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Table 1
Surface Water Monitoring Sites for Chino Basin Maximum Benefit Implementation Plan for Salt Management

Station Type	WE_ID	Site Name	Description	Data Provider	Discharge	Type	Discharge Monitoring		Water Quality Monitoring		
							Frequency	Period	Frequency	Period	Analyses
USGS Gauging Station		11066460	Santa Ana River at MWD Xing	USGS, OCWD	Santa Ana River	Total Discharge	Daily	Jan - Dec	Bi-weekly[1]	Jan - Dec	Gen. Min. & Physical
USGS Gauging Station		11072100	Temescal Creek above Main Street	USGS	Temescal Creek	Total Discharge	Bi-weekly[1]	Jan - Dec	Bi-weekly[1]	Jan - Dec	Gen. Min. & Physical
USGS Gauging Station		11073495	Cucamonga Creek Near Mira Loma	USGS	Cucamonga Creek	Total Discharge	Bi-weekly[1]	Jan - Dec	Bi-weekly[1]	Jan - Dec	Gen. Min. & Physical
USGS Gauging Station		11074000	Santa Ana River Below Prado Dam	USGS, OCWD	Santa Ana River	Total Discharge	Daily	Jan - Dec	Bi-weekly[1]	Jan - Dec	Gen. Min. & Physical
USGS Gauging Station		11073300	San Antonio Creek at Riverside Drive	USGS	Santa Ana River	Total Discharge	Bi-weekly[1]	Jan - Dec	Bi-weekly[1]	Jan - Dec	Gen. Min. & Physical
USGS Gauging Station		11073360	Chino Creek at Schaefer Avenue	USGS	Santa Ana River	Total Discharge	Bi-weekly[1]	Jan - Dec	Bi-weekly[1]	Jan - Dec	Gen. Min. & Physical
USGS Gauging Station		11073493	West Branch of Cucamonga Channel above the Ely Basins	USGS	Santa Ana River	Total Discharge	Bi-weekly[1]	Jan - Dec	Bi-weekly[1]	Jan - Dec	Gen. Min. & Physical
Recycled Water Discharge		RWQCP Direct	Direct discharge to the Santa Ana River from the City of Riverside, Regional Water Quality Control Plant	Riverside	Recycled Water	Recycled Water	Daily	Jan - Dec	Bi-weekly[1]	Jan - Dec	Gen. Min. & Physical
Recycled Water Discharge		RWQCP Hidden Valley	Discharge and seepage from the Hidden Valley Wetlands	Riverside	Recycled Water	Recycled Water	Daily	Jan - Dec	Bi-weekly[1]	Jan - Dec	Gen. Min. & Physical
Recycled Water Discharge		Corona RW	Direct discharge to the Santa Ana River from the City of Riverside	Corona	Recycled Water	Recycled Water	Daily	Jan - Dec	Bi-weekly[1]	Jan - Dec	Gen. Min. & Physical
Recycled Water Discharge		RP1 Cucamonga	Discharge from IEUA's RP1 to Cucamonga Creek	IEUA	Recycled Water	Recycled Water	Daily	Jan - Dec	Bi-weekly[1]	Jan - Dec	Gen. Min. & Physical
Recycled Water Discharge		RP1 Prado	Discharge from IEUA's RP1 to the Prado Wetlands	IEUA	Recycled Water	Recycled Water	Daily	Jan - Dec	Bi-weekly[1]	Jan - Dec	Gen. Min. & Physical
Recycled Water Discharge		RP2	Discharge from IEUA's RP2 to Chino Creek	IEUA	Recycled Water	Recycled Water	Daily	Jan - Dec	Bi-weekly[1]	Jan - Dec	Gen. Min. & Physical
Recycled Water Discharge		Carbon Canyon	Discharge from IEUA's Carbon Canyon to Chino Creek	IEUA	Recycled Water	Recycled Water	Daily	Jan - Dec	Bi-weekly[1]	Jan - Dec	Gen. Min. & Physical
Recycled Water Discharge		RP5	Discharge from IEUA's RP5 to Chino Creek	IEUA	Recycled Water	Recycled Water	Daily	Jan - Dec	Bi-weekly[1]	Jan - Dec	Gen. Min. & Physical
Recycled Water Discharge		WRCRWTP	Western Riverside County Regional Wastewater Authority Regional Wastewater Treatment Plant – Near River Road	WR-JPA	Recycled Water	Recycled Water	Daily	Jan - Dec	Bi-weekly[1]	Jan - Dec	Gen. Min. & Physical
Ad Hoc Stations - HCMP		HOLE_LK-SAR	Hole Lake Discharge at Santa Ana River	Watermaster, OCWD	Hole Lake	Total Discharge	Bi-weekly[1]	May-Sep	Bi-weekly[1]	Jan - Dec	Gen. Min. & Physical
Ad Hoc Stations – HCMP		SAR-VANBUREN	Santa Ana River at Van Buren	Watermaster, OCWD	Santa Ana River	Total Discharge	Bi-weekly[1]	May-Sep	Bi-weekly[1]	Jan - Dec	Gen. Min. & Physical
Ad Hoc Stations – HCMP		SAR-ETIWANDA	Santa Ana River at Etiwanda	Watermaster, OCWD	Santa Ana River	Total Discharge	Bi-weekly[1]	May-Sep	Bi-weekly[1]	Jan - Dec	Gen. Min. & Physical
Ad Hoc Stations – HCMP		SAR-HAMNER	Santa Ana River at Hamner	Watermaster, OCWD	Santa Ana River	Total Discharge	Bi-weekly[1]	May-Sep	Bi-weekly[1]	Jan - Dec	Gen. Min. & Physical
Ad Hoc Stations – HCMP		SAR-RIVER_RD	Santa Ana River at River Road	Watermaster, OCWD	Santa Ana River	Total Discharge	Bi-weekly[1]	Jan - Dec	Bi-weekly[1]	Jan - Dec	Gen. Min. & Physical
Ad Hoc Stations - OCWD		SAR-DIV-PRADOWTLNDS	Diversion of Portion of the Santa Ana River to OCWD Wetlands	OCWD	Santa Ana River	Total Discharge	Project[2]	Project[2]	Project[2]	Project[2]	Project[2]
Ad Hoc Stations – OCWD		CK-CHINO	Chino Creek (project related)	OCWD	Chino Creek	Total Discharge	Project[2]	Project[2]	Project[2]	Project[2]	Project[2]
Ad Hoc Stations – OCWD		CK-MILL	Mill Creek (project related)	OCWD	Cucamonga Creek	Total Discharge	Project[2]	Project[2]	Project[2]	Project[2]	Project[2]
Ad Hoc Stations – OCWD		CK-TEMESCAL	Temescal Creek (project related)	OCWD	Temescal Creek	Total Discharge	Project[2]	Project[2]	Project[2]	Project[2]	Project[2]

[1] *"Bi-weekly" means every two weeks, and not twice per week.*
[2] *"Project" means that the monitoring is not routine and is project specific. OCWD will provide the data that are developed as part of these projects.*

Table 2
Analytes: Preservation, Holding Times, Sample Size, and Containers

Analyte	EPA/SM Method Number	Preservative	Sample Holding Time	Extract Holding Time	Sample Size	Type of Container
Ammonia-N	EPA 350.1	Cool, 4°C 0.5 mL, H_2SO_4 to pH<2	28 days	–	125 mL	Plastic
Anion sum	calculated	–	–	–	–	–
Barium	EPA 200.7	0.5 mL, H_2SO_4 to pH<2	6 months	–	500 mL	Plastic
Bicarbonate	SM 2320B	Cool, 4°C	14 days	–	100 mL	Plastic
Boron	EPA 200.7	0.5 mL, H_2SO_4 to pH<2	6 months	–	500 mL	Plastic
Calcium	EPA 200.7	0.5 mL, H_2SO_4 to pH<2	6 months	–	500 mL	Plastic
Cation sum	calculated	–	–	–	–	–
Chloride	EPA 300.0	none	28 days	–	125 mL	Plastic
Color	SM 2120B	Cool, 4°C	48 hours	–	500 mL	Plastic
Electrical Conductivity	SM 2510B	Cool, 4°C	28 days	–	125 mL	Plastic
Fecal Coliform	SM 9221	0.25mL $Na_2S_2O_3$ (8%)	30 hours	–	250 mL	Plastic, sterile
Total Coliform	SM 9221	0.25mL $Na_2S_2O_3$ (8%)	30 hours	–	250 mL	Plastic, sterile
Fluoride	SM 4500F-C	none	28 days	–	125 mL	Plastic
Hydroxide	EPA 310.1	calculated	–	–	–	–
Magnesium	EPA 200.7	0.5 mL, H_2SO_4 to pH<2	6 months	–	500 mL	Plastic
MBAS	SM 5540C	Cool, 4°C	48 hours	–	500 mL	Plastic
Nitrate-N	EPA 300.0	Cool, 4°C	28 days	–	125 mL	Plastic
Nitrite-N	EPA 300.0	Cool, 4°C	48 hours	–	125 mL	Plastic
Odor	SM 2150B	Cool, 4°C	24 hours	–	500 mL	Glass
Perchlorate	EPA 314	Cool, 4°C	28 days	–	125 mL	Plastic
pH	EPA 150.1/SM 4500-HB	Cool, 4°C	7 days	–	125 mL	Plastic
Potassium	EPA 200.7	0.5 mL, H_2SO_4 to pH<2	6 months	–	500 mL	Plastic
Sodium	EPA 200.7	0.5 mL, H_2SO_4 to pH<2	6 months	–	500 mL	Plastic
Strontium	EPA 200.7	0.5 mL, H_2SO_4 to pH<2	6 months	–	500 mL	Plastic
Sulfate	EPA 300.0	Cool, 4°C	28 days	–	125 mL	Plastic
Total Alkalinity	SM 2320B	Cool, 4°C	14 days	–	100 mL	Plastic
Total Dissolved Solids	SM 2540C	Cool, 4°C	7 days	–	125 mL	Plastic
Total Hardness	SM 2340B	calculated	–	–	–	–
Total Phosphorus	SM 4500PE/EPA 365.1	0.5ml H_2SO_4 (50%)	28 days	–	250ml	Plastic
Turbidity	EPA 180.1	Cool, 4°C	48 hours	–	125 mL	Plastic
VOCs	EPA 524.2	HCl	14 days	–	3 x 40mL	Amber Glass Vial

"–" = not applicable

Table 3
Analytes: Accuracy and Precision

Analyte	EPA/SM Method Number	Accuracy		Precision
		Laboratory Control Sample % Recovery	Matrix Spike % Recovery	% Relative Percent Difference (RPD) Maximum
Ammonia-N	EPA 350.1	90 - 110	80 - 110	20
Anion sum	calculated	–	–	–
Barium	EPA 200.7	85 –115	70 - 130	20
Bicarbonate	SM 2320B	90 - 110	80 - 120	15
Boron	EPA 200.7	85 - 115	70 - 130	20
Calcium	EPA 200.7	85 - 115	70 - 130	20
Cation sum	calculated	–	–	–
Chloride	EPA 300.0	90 - 110	80 - 120	20
Color	SM 2120B	–	–	–
Electrical Conductivity	SM 2510B	–	–	5
Fecal Coliform	SM 9221	–	–	–
Total Coliform	SM 9221	–	–	–
Fluoride	SM 4500F-C	90 - 110	80 - 120	–
Hydroxide	EPA 310.1	–	–	–
Magnesium	EPA 200.7	85 - 115	70 - 130	20
MBAS	SM 5540C	90 - 110	80 - 120	20
Nitrate-N	EPA 300.0	90 - 110	80 - 120	20
Nitrite-N	EPA 300.0	90 - 110	80 - 120	20
Odor	SM 2150B	–	–	–
Perchlorate	EPA 314	90 - 110	80 - 120	20
pH	EPA 150.1/SM 4500-HB	+/– 0.1	–	10
Potassium	EPA 200.7	85 - 115	70 - 130	20
Sodium	EPA 200.7	85 - 115	70 - 130	20
Strontium	EPA 200.7	85 - 115	70 - 130	20
Sulfate	EPA 300.0	90 - 110	80 - 120	20
Total Alkalinity	SM 2320B	90 - 110	80 - 120	15
Total Dissolved Solids	SM 2540C	85 –115	–	10
Total Hardness	SM 2340B	–	–	–
Total Phosphorus	EPA 365.1	90 –110	80 – 120	20
Turbidity	EPA 180.1	90 –110	80 – 120	10
VOCs	EPA 524.2	85 - 115	70 - 130	20

"–" = not applicable

Table 4
Wells in Groundwater-Level Monitoring Program in Chino Basin

WEID	CBWM ID	Owner	Local Name	Well Status	Construction Information	Frequency of Measurement	Water Quality Well?
1203002	300005	BOERSMA, PETE	8340-1	Active	N/A	Semi-Annual	No
1202730	300017	BAIN, WARREN	4040-2	Active	N/A	Monthly	No
1203420	300021	GILSTRAP, GLEN	31410	Active	N/A	Semi-Annual	No
1203023	300022	GODINHO, JOHN	31680-DD	Active	N/A	Monthly	Yes
1203017	300023	EXCELSIOR FARMS	27480-1	Active	N/A	Semi-Annual	No
1203004	300024	BOSMA, DICK	10440-DOM	Active	N/A	Semi-Annual	No
1203428	300025	FLAMELING DAIRY INC.	28880-C	Active	N/A	Semi-Annual	No
1203427	300026	VANDEN BERGE, GERTIE	DAIRY-760C/IRR-17P	Abandoned	N/A	Semi-Annual	No
1203419	300032	OOSTEN FAMILY TRUST		Active	N/A	Semi-Annual	No
1203489	300034	LOURENCO, CARLOS DAIRY	400c-0.01380	Active	N/A	Semi-Annual	No
1203010	300035	HARRIS, JIMMY		Active	N/A	Semi-Annual	No
1003939	300037	BORGES JR., MANUEL & SON DAIRY	9900-DOM	Active	N/A	Semi-Annual	No
1203440	300040	OSTERKAMP, JOSEPH	1	Active	N/A	Semi-Annual	No
1201975	300041	TERMAATEN, CASE	95958-1	Inactive	N/A	Monthly	No
1202962	300043	BATES, MILDRED		Active	N/A	Semi-Annual	No
1202956	300044	ANGELINE ROUKEMA	DOM-0.00975	Active	N/A	Semi-Annual	No
1203013	300045	WOLL, DN	93020	Active	N/A	Monthly	No
1202679	300046	SIMAS, SR., JOE	DAIRY-2E7	Active	N/A	Monthly	No
1100007	300052	CRAMER, W R RANCH	19060-2	Active	Layer 1	Semi-Annual	No
1203434	300053	VAN LOON, RICHARD		Active	N/A	Semi-Annual	No
1203021	300054	VANDER DUSSEN, RENE	84920-DD	Active	N/A	Semi-Annual	No
1202976	300055	THRALL, LEMON	79090	Active	N/A	Semi-Annual	No
1203451	300056	VAN VEEN, JOHN	NEW-0.01325	Active	N/A	Semi-Annual	No
1003951	300057	VANDER MEER, DICK	85760	Active	N/A	Monthly	No
1202973	300059	GORDSTON, RON		Active	Layer 1	Monthly	No
1202989	300060	UNITEX CORPORATION	Domestic	Active	N/A	Semi-Annual	No
1202848	300061	VISSER, HENRY	88720-DOM	Active	N/A	Semi-Annual	No
1203751	300062	LEE, HENRIETTA		Active	N/A	Semi-Annual	No
1202737	300070	MIERSMA, HARRY		Active	N/A	Monthly	Yes
1201906	300071	HETTINGA, WILBER	IRR	Inactive	N/A	Monthly	No
1201905	300072	HETTINGA, WILBER	DOM	Active	N/A	Monthly	No
1202714	300084	HOOGENDAM DAIRY	IRR	Active	N/A	Semi-Annual	No
1203433	300085	JONGSMA, HAROLD	42360-DAIRY	Active	N/A	Semi-Annual	Yes
1203414	300086	KONING, J.N. ESTATE		Active	N/A	Monthly	No
1202996	300094	OLIVEIRA, MARY	95031	Active	N/A	Semi-Annual	No
1203421	300095	OOSTEN FAMILY TRUST	1	Active	N/A	Semi-Annual	No
1203438	300096	OSTERKAMP, JOSEPH	2	Active	N/A	Monthly	No
1203448	300108	MENDIONDO, CATHERINE	DAIRY	Active	N/A	Semi-Annual	No
1202958	300110	WESTSTEYN, PETE	DOM	Abandoned	N/A	Monthly	No
1202681	300113	HETTINGA, IDA	DOM	Active	N/A	Monthly	No
1202968	300115	CARDOZA TRUST/INVESTMENT	B 9	Active	N/A	Semi-Annual	Yes
1201888	300118	HOEKSTRA, EDWARD	DOM	Inactive	N/A	Monthly	No
1203496	300148	VAN DER EYK SR., CASE	85120-DOM	Active	N/A	Semi-Annual	Yes
1201980	300149	PLANTENGA, GEORGE	DOM	Active	N/A	Monthly	Yes
1004665	300151	SCHONEVELD, ESTHER	68580-DOM	Active	N/A	Semi-Annual	No
1201941	300154	REXIUS, TED		Active	N/A	Semi-Annual	No
1003611	300172	NORCO, CITY OF	9	Active	Layer 2	Monthly	No
1003612	300173	NORCO, CITY OF	10	Active	N/A	Monthly	No
1202950	300175	DE BOS, ANDREW		Active	N/A	Semi-Annual	No
1201891	300178	BOS, JOHN	95054-DAIRY	Active	N/A	Monthly	No
1003624	300179	JURUPA COMMUNITY SERVICES	Sky Country #1	Active	N/A	Owner	Yes
1003578	300180	JURUPA COMMUNITY SERVICES	#10, Beligrave	Observation	N/A	Owner	No
1202994	300181	CORONA FARMS PARTNERS	80570-IRR	Inactive	N/A	Semi-Annual	No
1202764	300183	VAN RYN DAIRY	DAIRY/DOM	Active	N/A	Semi-Annual	No
1201922	300185	JURUPA COMMUNITY SERVICES	Sky Country #2	Observation	N/A	Owner	No
1003622	300186	JURUPA COMMUNITY SERVICES	Sky Country #3	Observation	Layer 1,2	Owner	No
1003506	300188	JURUPA COMMUNITY SERVICES	11	Active	Layer 2	Owner	Yes
1003505	300190	JURUPA COMMUNITY SERVICES	12	Inactive	Layer 2	Owner	No
1203000	300194	EXCELSIOR FARMS		Active	N/A	Semi-Annual	No
1003952	300196	CORONA DAIRY RANCH	47320-NEW	Active	N/A	Monthly	No
1201917	300197	SWAN LAKE MOBILE HOME PARK	4	Inactive	N/A	Monthly	No
1003613	300199	NORCO, CITY OF	11	Active	Layer 2	Monthly	No
1003466	300200	JURUPA COMMUNITY SERVICES	13	Active	Layer 2	Owner	Yes
1003498	300202	JURUPA COMMUNITY SERVICES	15	Active	Layer 2	Owner	Yes
1201921	300203	SWAN LAKE MOBILE HOME PARK	2A	Inactive	N/A	Monthly	No
1003501	300204	JURUPA COMMUNITY SERVICES	14	Active	Layer 2	Owner	Yes
1003502	300205	JURUPA COMMUNITY SERVICES	16	Active	Layer 2	Owner	Yes
1003467	300207	JURUPA COMMUNITY SERVICES	17	Active	Layer 2	Owner	Yes
1003469	300208	JURUPA COMMUNITY SERVICES	18	Active	Layer 2	Owner	Yes
1003607	300211	VERNOLA, PAT	DOMESTIC	Active	N/A	Monthly	No
1201984	300217	KASBERGEN DAIRY		Active	N/A	Monthly	No
1201983	300218	KASBERGEN DAIRY		Active	N/A	Monthly	Yes
1202697	300221	LEAL, BRAD	WEST DAIRY	Active	N/A	Monthly	No
1203878	300224	VANDEN BERGE, GERTIE	DOM#1	Active	N/A	Semi-Annual	No
1203449	300226	RODRIGUEZ, TONY	Dairy-Dom	Active	N/A	Semi-Annual	No
1206469	300227	MIRA LOMA THOROUGHBRED FARM	DOM-WEST	Active	N/A	Monthly	Yes
1206471	300229	EN SUE, LIAU	DOM	Active	N/A	Monthly	Yes
1206472	300231	JONGSMA, BILL		Active	N/A	Semi-Annual	No
1206473	300233	TOLLMARK CORPORATION	Dairy/Dom-by house	Active	N/A	Monthly	No
1203578	300234	FLAMINGO DAIRY	DAIRY DOM	Active	N/A	Semi-Annual	No
1206475	300236	TILLEMA, HAROLD	CAPPED	Abandoned	N/A	Monthly	No
1206477	300238	STERLING LEASING INC	DOM/Office	Active	N/A	Semi-Annual	No
1206478	300239	TOLLMARK CORPORATION	By barn/1 HP	Active	N/A	Semi-Annual	No
1206481	300242	BOOTSMA, IKE	CALVES	Active	N/A	Semi-Annual	No
1206482	300244	POLOPULUS, STEVE	Back up	Inactive	N/A	Monthly	Yes
1206484	300246	LOURENCO, MARY		Abandoned	N/A	Monthly	No
1206485	300247	MOYNIER, JEAN		Abandoned	N/A	Monthly	No
1206487	300249	CRAMER, W R	DOM-New	Active	N/A	Semi-Annual	No
1206549	300251	OWNER UNKNOWN		Active	N/A	Semi-Annual	No
1206684	300258	CHINO BASIN DESALTER	6	Active	Layer 1,2	Semi-Annual	No
1206685	300259	CHINO BASIN DESALTER	7	Active	Layer 1,2	Semi-Annual	No
1207125	300260	GONSALVES, MARY		Active	N/A	Monthly	No
1207333	300261	SANTA ANA RIVER WATER	11	Inactive	N/A	Monthly	No
1206937	300265	Guadalupe Home for Boys Inc		Active	N/A	Monthly	No
1206944	300266	RODRIGUEZ, MARCY	IRRDOM	Active	N/A	Monthly	No
1207088	300270	UNITED STATES, GEOLOGICAL	Archibald 1	Observation	N/A	Transducer	No
1207089	300271	UNITED STATES, GEOLOGICAL	Archibald 2	Observation	N/A	Transducer	No
1207090	300272	UNITED STATES, GEOLOGICAL	US I-15 #1	Observation	N/A	Transducer	No
1207091	300273	UNITED STATES, GEOLOGICAL	US I-15 #2	Observation	N/A	Transducer	No
1207093	300274	UNITED STATES, GEOLOGICAL	HSA 1	Observation	N/A	Transducer	No
1207094	300275	UNITED STATES, GEOLOGICAL	HSA 2	Observation	N/A	Transducer	No
1207095	300276	UNITED STATES, GEOLOGICAL	HSA 3	Observation	N/A	Transducer	No
1207092	300277	UNITED STATES, GEOLOGICAL	SAR@Rixing	Observation	N/A	Transducer	No
1202276	600002	B. VANDER DUSSEN FAMILY TRUST	DI	Active	N/A	Semi-Annual	No
1202370	600004	HARADA, JAMES	95023-DOM	Active	N/A	Semi-Annual	No
1202464	600011	DE JAGER, LINDA	21610-DI	Active	Layer 1,2	Monthly	No
1202690	600012	ANGUIANO, RUBEN	2690	Active	N/A	Semi-Annual	Yes

Table 4
Wells in Groundwater-Level Monitoring Program in Chino Basin

WEID	CBWM ID	Owner	Local Name	Well Status	Construction Information	Frequency of Measurement	Water Quality Well?
1202453	600013	STELLINGWERF, HENRY	74520	Active	N/A	Semi-Annual	No
1202521	600014	STELLINGWERF, HENRY	74520-ANG	Inactive	N/A	Semi-Annual	No
1202429	600019	SWAGER DAIRY	95059-HOUSE	Active	N/A	Semi-Annual	No
1202824	600020	INDABURU, MARCELINE	40200-DOM-SOUTH	Active	N/A	Semi-Annual	No
1202827	600021	INDABURU, MARCELINE	40200-IRR-NORTH	Active	N/A	Monthly	No
1202943	600023	TEUNISSEN, BERNARD	DAIRY-600C	Abandoned	N/A	Semi-Annual	No
1202349	600024	MARTIN, TONY	DOM	Active	N/A	Semi-Annual	No
1202422	600025	DE HOOG, MICHAEL DAIRY	21760-IRR	Active	N/A	Semi-Annual	No
1202421	600026	DE HOOG, MICHAEL DAIRY	21760-DOM	Active	N/A	Semi-Annual	No
1202420	600027	DE HOOG, MARTIN	21680-DOM	Active	N/A	Semi-Annual	No
1202432	600029	VOORTMAN, GERTRUDE	89240	Active	N/A	Semi-Annual	No
1202424	600033	ALEWYN, JAKE	1200-	Active	N/A	Semi-Annual	No
1202448	600036	WORTHINGTON, TOM	47600-1	Active	N/A	Semi-Annual	Yes
1202456	600037	WORTHINGTON, TOM	47600-2	Active	N/A	Semi-Annual	No
1202340	600040	DYKSTRA, DICK	25880-1	Active	N/A	Semi-Annual	No
1202227	600042	MONTES, ELIZABETH		Active	N/A	Semi-Annual	No
1202650	600047	BAS VAN DAM & SON DAIRY	81400-IRR	Active	N/A	Monthly	No
1203186	600048	VASQUEZ, ELEANOR	87240	Inactive	N/A	Semi-Annual	Yes
1203033	600049	BERNARD, JOE		Active	Layer 1	Semi-Annual	No
1202809	600050	STARK, EVERETT	74200-IRR	Active	N/A	Monthly	Yes
1202808	600051	STARK, EVERETT	74200-DOM	Abandoned	N/A	Monthly	No
1202345	600054	HAVEN TWO DAIRY		Active	N/A	Semi-Annual	Yes
1202566	600059	DE VRIES, ABRAHAM	22640-DOM	Abandoned	N/A	Monthly	No
1202617	600063	TUINHOUT, HARRY	80080-3	Inactive	N/A	Semi-Annual	No
1003916	600064	SCHONEVELD, JOHN	DAIRY-1000C	Active	Layer 1,2	Semi-Annual	No
1003915	600065	SCHONEVELD, JOHN	IRR	Inactive	N/A	Semi-Annual	No
1202247	600067	BASQUE AMERICAN DAIRY	5160-BACKUP	Inactive	N/A	Semi-Annual	No
1202303	600075	VANDER EYK, JR., CASE	85080-H-F	Active	N/A	Semi-Annual	Yes
1202302	600076	VANDER EYK, JR., CASE	85080-H-B	Active	N/A	Semi-Annual	Yes
1203252	600077	INLAND EMPIRE UTILITIES AGENCY	87760-1	Abandoned	N/A	Semi-Annual	No
1202350	600078	SLEGERS, JANET	95046-DOM	Active	N/A	Semi-Annual	No
1202624	600080	TEE VEE DAIRY	DAIRY-1300C	Active	N/A	Semi-Annual	No
1202910	600087	JACQUES DAIRY	DAIRY-DOM	Active	N/A	Monthly	No
1202523	600092	DE JONG, GRACE	84480-DRY	Abandoned	N/A	Semi-Annual	No
1202450	600094	THOMMEN, FRED	79000-DOM	Active	N/A	Semi-Annual	No
1202531	600098	VERHOEVEN, MARTIN	87960	Active	N/A	Semi-Annual	No
1202253	600102	DE GROOT, JAKE	21440-DOM	Active	N/A	Semi-Annual	No
1202383	600103	BANGMA DAIRY	4320-DOM	Active	N/A	Semi-Annual	No
1202204	600104	WEAVER, LEON	25880-DOM	Active	N/A	Semi-Annual	No
1202117	600107	GOMEZ, MIGUEL	49360	Active	N/A	Semi-Annual	Yes
1202514	600115	DE WIT, PETER	23320-DOM	Active	N/A	Semi-Annual	No
1202293	600117	BOSCHMA, HENRY	DOM	Active	N/A	Semi-Annual	No
1202773	600118	NYENHUIS, JIM	IRR	Active	N/A	Monthly	No
1202525	600120	SCHUH, HAROLD	68760	Active	N/A	Semi-Annual	No
1003891	600122	BOUMA DAIRY	11120-DOM	Active	N/A	Semi-Annual	No
1202428	600129	STRUIKMANS, HENRY	DAIRY-550C	Active	N/A	Semi-Annual	No
1202352	600130	DE JONG, JACK	44920-DOM	Active	N/A	Semi-Annual	No
1202353	600131	DE JONG, JACK	IRR-DEJONG	Active	N/A	Semi-Annual	No
1202064	600134	KONING, FRED	DOM	Active	N/A	Semi-Annual	No
1202363	600136	DE HAAN, HENRY DAIRY	21560-1D	Active	N/A	Semi-Annual	No
1202781	600138	HARINGA, HERMAN	DOM	Active	N/A	Semi-Annual	No
1202468	600147	JORRITSMA, JAMES AND NONA	42560-DOM	Active	N/A	Semi-Annual	No
1202483	600148	COSTA, DIMAS	18640-DOM	Active	N/A	Semi-Annual	No
1202408	600151	GORZEMAN, RICK	DAIRY	Active	N/A	Semi-Annual	No
1202639	600158	COAST GRAIN	Loyola Dairy?	Active	N/A	Semi-Annual	No
1202272	600160	DAVENPORT GROUP	DAIRY/DOM	Active	Layer 1,2	Semi-Annual	No
1202577	600163	VAN VLIET, NICK	DAIRY/NORTH-650C	Active	N/A	Semi-Annual	No
1202578	600164	VAN VLIET, NICK	DAIRY/SOUTH-650C	Active	N/A	Semi-Annual	No
1202379	600165	LAM, KELLY	DOM-1500CALVES	Active	N/A	Semi-Annual	No
1203265	600168	WEEDA, DANIEL DAIRY	90240	Active	N/A	Semi-Annual	No
1003999	600172	GREYANUS, GERRITT	11120-IRR	Inactive	Layer 1,2	Monthly	No
1003770	600176	HARINGA, WILLIAM	DIRY-640C	Active	Layer 1,2,3	Semi-Annual	No
1202417	600178	J & L DAIRY	95044-STANDBY-SUBM	Inactive	N/A	Semi-Annual	No
1003856	600179	BORBA, JOHN & SONS DAIRY	9200-DOM	Active	N/A	Monthly	No
1202194	600183	J.B.'S CALVES	95016-DOM	Active	N/A	Semi-Annual	No
1202257	600184	J & B DAIRY INC.		Inactive	N/A	Semi-Annual	No
1202155	600185	BRIANO BROTHERS	DAIRY	Inactive	N/A	Semi-Annual	No
1202110	600187	BRIANO BROTHERS	11960-BEC	Active	N/A	Semi-Annual	No
1202586	600189	INLAND EMPIRE DAIRY	32130	Active	N/A	Semi-Annual	No
1202470	600193	COSTA, DIMAS	18640-DOM	Active	N/A	Semi-Annual	Yes
1202632	600196	SOUTHERN CALIFORNIA	95060-DOM	Active	N/A	Semi-Annual	No
1202590	600197	SOUTHERN CALIFORNIA	95060-IRR	Abandoned	N/A	Monthly	No
1202630	600199	VANDERHAM, CORNELIUS	Dairy/Dom	Active	N/A	Semi-Annual	No
1202551	600200	SOUTHERN CALIFORNIA	77760-DOM	Active	N/A	Semi-Annual	No
1202221	600201	HOGG, WARREN	38060-DI	Active	Layer 1,2	Semi-Annual	No
1202268	600203	B. VANDER DUSSEN FAMILY TRUST	DRY	Active	N/A	Semi-Annual	No
1202278	600204	VAN RYN DAIRY	IRR	Active	N/A	Semi-Annual	Yes
1202199	600208	VEENENDAAL DAIRY	87360-DOM	Active	N/A	Semi-Annual	Yes
1202884	600212	BARTHELEMY, H & R DAIRY	5120-IRR	Active	N/A	Semi-Annual	No
1203880	600216	VANDER LAAN, MARTIN		Active	N/A	Semi-Annual	No
1202182	600217	VANDER LAAN, MARTIN	85520-DOM	Active	N/A	Semi-Annual	No
1202882	600218	VAN VLIET, HUGO	DOMESTIC	Abandoned	N/A	Monthly	No
1203157	600221	CHINO, CITY OF	5577 Schaefer	Abandoned	N/A	Transducer	No
1202659	600222	ANGELAN GENDIAS TRUST	77680	Active	N/A	Semi-Annual	No
1202459	600223	SOUTHERN CALIFORNIA	DAIRY	Active	N/A	Semi-Annual	No
1202550	600226	BORBA, GEORGE	9080-DOM	Active	N/A	Semi-Annual	No
1203267	600227	DOUMA, PHILLIP	WC-680C	Active	N/A	Semi-Annual	Yes
1202842	600229	SOUZA, FRANK	73280-DOM	Active	N/A	Semi-Annual	No
1003776	600230	BASQUE AMERICAN DAIRY	5160	Active	N/A	Semi-Annual	Yes
1202475	600231	S.N.S. DAIRY	GAS	Inactive	N/A	Semi-Annual	No
1202474	600232	S.N.S. DAIRY	95024	Active	N/A	Semi-Annual	No
1203462	600235	STUEVE BROTHERS FARMS	1	Active	N/A	Semi-Annual	No
1203464	600236	STUEVE BROTHERS FARMS	2	Active	N/A	Semi-Annual	No
1203463	600237	STUEVE BROTHERS FARMS	3	Active	N/A	Semi-Annual	No
1003852	600245	HOFSTRA, MARIE	23000-DOM	Active	N/A	Semi-Annual	No
1202492	600247	LAND DESIGN SERVICES	95067-3	Active	N/A	Semi-Annual	No
1202519	600248	ASTOR & PHILLIPS	4	Active	N/A	Semi-Annual	No
1202535	600249	ASTOR & PHILLIPS	6	Active	N/A	Monthly	No
1202150	600252	JONGSMA DAIRY	DD	Active	N/A	Monthly	No
1202895	600254	ROCHA, JOHN	NEW	Active	N/A	Semi-Annual	No
1202447	600255	WIERSMA, PETE	DOM	Active	N/A	Semi-Annual	No
1202183	600263	PIERCE FAMILY, INC.	17000	Active	N/A	Semi-Annual	No
1202326	600268	VANDERHAM, CORNELIUS	DY1-40P	Inactive	N/A	Semi-Annual	No
1202672	600269	SCHAKEL, SR., FRED	Dom-0.00920	Active	N/A	Monthly	No
1202226	600272	BEKENDAM, HANK	6200-	Active	N/A	Semi-Annual	No
1202604	600274	VAN VEEN, JOHN	84040	Active	N/A	Semi-Annual	Yes
1202804	600280	ENGELSMA DAIRY	26880	Active	N/A	Semi-Annual	No

Table 4
Wells in Groundwater-Level Monitoring Program in Chino Basin

WEID	CBWM ID	Owner	Local Name	Well Status	Construction Information	Frequency of Measurement	Water Quality Well?
1003831	600282	JONGSMA, JOHN	42440	Active	Layer 1,2	Semi-Annual	No
1202853	600284	FERREIRA, JOE	28080-CHI	Active	N/A	Semi-Annual	No
1202772	600289	VANDER SCHAAF, EARL	DOM	Active	N/A	Semi-Annual	No
1202626	600295	GOLDEN WEST DAIRIES	DOM	Active	N/A	Semi-Annual	No
1003750	600299	J.G.J. JOINT VENTURE	95075	Active	N/A	Semi-Annual	No
1202669	600302	SCHAKEL, SR., FRED	DAIRY-550C	Active	N/A	Monthly	No
1202790	600303	CLARKE, ARTHUR	17240	Active	N/A	Semi-Annual	No
1202139	600306	ZIVELONGHI, GEORGE	IRR-#2-12P	Active	N/A	Semi-Annual	No
1202294	600309	VAN DYK, BART	DAIRY-550C/IRR-10P	Active	N/A	Semi-Annual	No
1202197	600312	VEENENDAAL DAIRY	87360-IR2	Abandoned	N/A	Semi-Annual	No
1202164	600327	GUTIERREZ, ERNESTO	93400	Active	N/A	Semi-Annual	No
1202473	600330	RILEY GEORGE A		Active	N/A	Semi-Annual	No
1202900	600334	WESTRA, H & R DAIRY	DOM-PINE	Abandoned	N/A	Semi-Annual	No
1202843	600337	VERHOVEN, PETE	66560-DOM	Active	N/A	Monthly	No
1202576	600339	LEE, HENRIETTA	DOM	Active	N/A	Semi-Annual	Yes
1202445	600345	NEDEREND, HANS	DOM	Active	N/A	Semi-Annual	No
1203296	600352	KONING, JOHN	44560-IRR	Active	N/A	Semi-Annual	No
1203297	600353	KONING, JOHN	44560-SPA	Abandoned	N/A	Semi-Annual	No
1202938	600355	VANDER LAAN, JAMES	DAIRY	Active	N/A	Semi-Annual	No
1202785	600362	ECHEVERRIA, JUAN DAIRY	26240-DOM	Inactive	N/A	Semi-Annual	No
1202368	600370	ANDERSON, FARMS	2200-E30	Active	Layer 2	Semi-Annual	No
1203261	600372	BOSMA, GERRIT	10520-DOM	Active	N/A	Semi-Annual	No
1202924	600383	STUEVE BROTHERS FARMS	BARN #5	Inactive	N/A	Monthly	No
1202118	600387	WEST EUCLID WATER GROUP	93760	Active	N/A	Semi-Annual	Yes
1202462	600392	VOORTMAN, EDWIN	89260	Active	N/A	Semi-Annual	No
1003992	600393	VISSER, HENRY	88720-IRR	Active	N/A	Semi-Annual	Yes
1202246	600394	SMITH, LESTER	2	Abandoned	Layer 2	Monthly	No
1003815	600397	VANDER DUSSEN, SYBRAND	600C	Active	Layer 2	Monthly	No
1004668	600398	VANDER LAAN, BEN	85360-DOM	Active	N/A	Semi-Annual	No
1003983	600399	COUNTY OF SAN BERNARDINO,		Active	Layer 1,2,3	Monthly	Yes
1202203	600402	OKUMURA, MARION		Active	N/A	Semi-Annual	No
1202779	600405	BRINKERHOFF, ROBERT	12420	Active	N/A	Monthly	No
1202784	600406	ECHEVERRIA, JUAN DAIRY	26240-IRR	Active	N/A	Monthly	No
1201245	600407	QUAKER CHEMICAL CO.		Inactive	N/A	Owner	No
1202915	600411	VANDER POEL, PETE	85840-DOM	Active	N/A	Semi-Annual	No
1202877	600414	WESTRA, H & R DAIRY	DOM-DAIRY	Abandoned	N/A	Monthly	No
1002563	600415	MONTE VISTA WATER DISTRICT	19	Active	Layer 2,3	Owner	Yes
1003741	600417	CHINO, CITY OF	11	Active	Layer 2,3	Owner	Yes
1202298	600419	NORTHVIEW DAIRY	1500C	Active	N/A	Semi-Annual	No
1203473	600425	HETTINGA, HEIN	DM3	Active	N/A	Semi-Annual	Yes
1003885	600429	HARINGA, RUDY	DAIRY-400C	Active	N/A	Semi-Annual	No
1202651	600432	BAS VAN DAM & SON DAIRY	81400-DOM	Active	N/A	Semi-Annual	No
1002561	600436	MONTE VISTA WATER DISTRICT	20	Active	Layer 2,3	Owner	Yes
1003873	600437	STATE OF CALIFORNIA, CIM	5	Active	N/A	Semi-Annual	No
1202431	600439	DE GROOT, DICK	IRRIGATION	Active	N/A	Semi-Annual	No
1202655	600441	SLEGERS, HUBERT	71800-DOM	Active	N/A	Semi-Annual	No
1202232	600444	BACHOC, RAYMOND	3800-DOM	Active	N/A	Semi-Annual	No
1202248	600447	BASQUE AMERICAN DAIRY	5160-USE	Active	N/A	Semi-Annual	Yes
1202286	600451	SLEGERS, LENWOOD	71840-IRR	Active	N/A	Semi-Annual	No
1202607	600452	HOLSTEINS, G.P.	DOM	Active	N/A	Semi-Annual	No
1002333	600453	ONTARIO, CITY OF	29	Active	Layer 2,3	Owner	Yes
1002253	600454	ONTARIO, CITY OF	30	Inactive	Layer 2,3	Owner	No
1002254	600455	ONTARIO, CITY OF	31	Active	Layer 2,3	Owner	Yes
1201276	600458	SMITH, DR.	72130-DOM	Inactive	N/A	Semi-Annual	No
1202412	600459	COELHO DAIRY	1-DAIRY -1000 COWS	Active	N/A	Semi-Annual	No
1202413	600460	COELHO DAIRY	2-IRR-40AC PASTURE	Active	N/A	Semi-Annual	No
1200240	600462	INTEX PROPERTIES	91090	Active	N/A	Semi-Annual	No
1202643	600463	DYT, ANDY	standby only	Active	N/A	Monthly	Yes
1202608	600464	VAN LEEUWEN, ARIE	DOMESTIC	Active	N/A	Semi-Annual	No
1202865	600465	MORENO, MANUAL	IRR	Active	N/A	Semi-Annual	No
1202634	600466	SOUTHERN CALIFORNIA	95060	Active	N/A	Semi-Annual	No
1002739	600467	CHINO, CITY OF	12	Active	Layer 1,2,3	Owner	Yes
1203476	600468	COUNTY OF SAN BERNARDINO	SS1	Active	N/A	Semi-Annual	No
1203477	600469	COUNTY OF SAN BERNARDINO	SS2	Active	N/A	Monthly	No
1202312	600472	DYKSTRA, PETE & JOHN	2 RENTAL HOMES	Active	N/A	Monthly	No
1202875	600474	STUEVE BROTHERS FARMS	BARN #4	Active	N/A	Semi-Annual	No
1002360	600475	ONTARIO, CITY OF	33	Inactive	Layer 2,3	Owner	No
1002367	600476	ONTARIO, CITY OF	34	Active	Layer 2,3	Owner	Yes
1004185	600478	CHINO, CITY OF	13	Active	Layer 2,3	Owner	Yes
1002308	600479	CUCAMONGA COUNTY WATER	CB-30	Active	Layer 2,3	Owner	Yes
1202296	600480	WATER WELL SUPPLY		Active	Layer 2,3	Semi-Annual	Yes
1202427	600481	MIERSMA, HARRY	53560-DD1	Active	N/A	Semi-Annual	No
1002645	600482	CHINO, CITY OF	14	Active	Layer 2,3	Owner	Yes
1002237	600486	FONTANA WATER COMPANY	F17B	Active	Layer 2,3	Owner	Yes
1004279	600487	CHINO HILLS, CITY OF	1B	Active	Layer 2,3	Transducer	No
1203214	600488	CHINO HILLS, CITY OF	15B	Active	Layer 2,3	Transducer	No
1203106	600489	CHINO HILLS, CITY OF	16	Active	Layer 2,3	Transducer	No
1002211	600490	FONTANA WATER COMPANY	F7A	Active	Layer 3	Owner	Yes
1002216	600491	FONTANA WATER COMPANY	F22A	Active	Layer 2,3	Owner	Yes
1002239	600492	FONTANA WATER COMPANY	F23A	Active	Layer 2,3	Owner	Yes
1002350	600493	ONTARIO, CITY OF	35	Active	Layer 2,3	Owner	Yes
1002372	600494	ONTARIO, CITY OF	36	Active	Layer 2,3	Owner	Yes
1203217	600495	CHINO HILLS, CITY OF	14	Active	Layer 2	Transducer	No
1201087	600496	ARROWHEAD DRINKING WATER		Active	N/A	Semi-Annual	No
1200989	600497	FONTANA WATER COMPANY	F25A	Active	Layer 2,3	Owner	Yes
1004218	600498	CHINO HILLS, CITY OF	7D	Active	Layer 2,3	Owner	Yes
1004179	600499	CHINO HILLS, CITY OF	17	Active	Layer 2,3	Transducer	No
1203158	600500	CHINO HILLS, CITY OF	19	Active	Layer 2,3	Transducer	No
1200218	600502	FONTANA WATER COMPANY	F24A	Active	Layer 2,3	Owner	Yes
1200219	600504	FONTANA WATER COMPANY	F26A	Active	Layer 3	Owner	Yes
1202569	600505	DYT, JOHANNA TRUST	STANDBY	Active	N/A	Semi-Annual	No
1202256	600507	BARTH FARMS	5090	Active	N/A	Semi-Annual	Yes
1202269	600508	BOSCH, PETER	10280-DOM	Active	N/A	Semi-Annual	No
1200986	600512	FONTANA WATER COMPANY	F4A	Active	Layer 2,3	Owner	Yes
1203715	600515	COUNTY OF SAN BERNARDINO,	AG10-LOCKHEED	Active	N/A	Monthly	No
1202601	600516	FIEN, BILL		Active	N/A	Semi-Annual	No
1202782	600517	HARINGA, HERMAN	DOMESTIC STANDBY	Active	N/A	Semi-Annual	Yes
1202783	600518	ECHEVERRIA, JUAN DAIRY	DOM	Active	N/A	Semi-Annual	No
1202138	600519	VANDER SCHAAF, DAVE	DAIRY	Active	N/A	Semi-Annual	No
1002109	600524	WEST SAN BERNARDINO COUNTY	WELL 37	Active	Layer 2,3	Owner	Yes
1004037	600525	STUEVE BROTHERS FARMS	BARN #1	Active	N/A	Semi-Annual	No
1202911	600526	STUEVE BROTHERS FARMS	BARN #3	Active	N/A	Monthly	No
1202162	600528	SHELBY, CATHY	DAIRY	Active	N/A	Semi-Annual	No
1201129	600529	SUNKIST GROWERS, INC.	3	Active	Layer 2,3	Semi-Annual	No
1202901	600530	GROOMAN'S PUMP	DOM	Active	N/A	Monthly	Yes
1202195	600531	RODRIGUEZ, TONY	HOUSE	Active	N/A	Semi-Annual	No
1202367	600532	HETTINGA, GERBEN		Active	N/A	Semi-Annual	No

Table 4
Wells in Groundwater-Level Monitoring Program in Chino Basin

WEID	CBWM ID	Owner	Local Name	Well Status	Construction Information	Frequency of Measurement	Water Quality Well?
1202846	600533	GOYENETCHE, ALBERT	DOMESTIC	Active	N/A	Semi-Annual	No
1202807	600534	STARK, EVERETT	74200-DOM	Active	N/A	Semi-Annual	No
1202621	600535	ANGELAN GENDIAS TRUST	DAIRY/DOM	Active	N/A	Semi-Annual	No
1202622	600536	ANGELAN GENDIAS TRUST	DOMESTIC	Abandoned	N/A	Monthly	No
1202862	600542	LIZZARAGA, FRANK	DOMESTIC	Active	N/A	Semi-Annual	No
1202861	600543	LIZZARAGA, FRANK	IRRIGATION	Abandoned	N/A	Monthly	No
1202886	600544	MARQUEZ DAIRY	DAIRY/DOMESTIC	Active	N/A	Semi-Annual	No
1202878	600545	WESTRA, H & R DAIRY	NEW-DOMESTIC	Active	N/A	Monthly	No
1203149	600546	CHINO HILLS, CITY OF	18A	Abandoned	Layer 2,3	Transducer	No
1203215	600547	CHINO HILLS, CITY OF	15A	Abandoned	Layer 1,2	Transducer	No
1203236	600549	DOUMA, PHILLIP	BACK-UP	Active	N/A	Semi-Annual	Yes
1202351	600550	SLEGERS, JANET	IRRIGATION	Active	N/A	Semi-Annual	No
1002230	600551	ONTARIO, CITY OF	37	Active	Layer 2,3	Owner	Yes
1203447	600552	CASE VAN DER EYK DAIRIES	DOM-ROAD	Active	N/A	Monthly	No
1203446	600553	CASE VAN DER EYK DAIRIES	DOM-BARN	Active	N/A	Semi-Annual	No
1202210	600555	HOGG, WARREN	DAIRY	Active	N/A	Semi-Annual	No
1201040	600561	FONTANA WATER COMPANY	F2A	Active	Layer 2,3	Owner	Yes
1201069	600562	FONTANA WATER COMPANY	F17C	Active	Layer 2,3	Owner	Yes
1203749	600570	HERMANS, HARRY		Active	N/A	Semi-Annual	No
1202019	600573	VANDERHAM, CORNELIUS	DAIRY-DOM	Active	N/A	Semi-Annual	Yes
1202923	600578	LIBERTY RANCH	DOM	Active	N/A	Semi-Annual	No
1202356	600579	HILLCO DAIRY	DAIRY/DOM	Active	N/A	Semi-Annual	Yes
1202754	600581	SOUTHERN CALIFORNIA	DOM	Active	N/A	Semi-Annual	No
1202641	600583	SOUTHERN CALIFORNIA	DOM	Inactive	N/A	Monthly	No
1202479	600584	SOUTHERN CALIFORNIA	DAIRY DOM	Active	N/A	Monthly	No
1006998	600585	ONTARIO, CITY OF	38	Active	N/A	Owner	Yes
1000555	600589	UPLAND, CITY OF	16	Active	N/A	Owner	Yes
1206495	600595	WESTRA, HENRY	Dairy/Dom	Active	N/A	Semi-Annual	No
1006997	600598	UPLAND, CITY OF	7A	Active	Layer 2	Owner	Yes
1206499	600601	PINHERO, JACK	DAIRY	Active	N/A	Semi-Annual	No
1206500	600603	DOMINGUEZ, JOHN		Active	N/A	Monthly	No
1206501	600604	DOMINGUEZ, JOHN		Active	N/A	Semi-Annual	No
1206502	600605	AL SCHEENSTRA - LESSEE	Dairy/Dom	Active	N/A	Semi-Annual	No
1206503	600606	VICTORY BAPTIST CHURCH	DOM	Active	N/A	Semi-Annual	No
1206504	600608	STATE OF CA CIW		Active	N/A	Semi-Annual	No
1206505	600609	MORENO, LOUIS W		Active	N/A	Semi-Annual	No
1206506	600610	THUY, CONRAD		Abandoned	N/A	Semi-Annual	No
1206507	600611	VAN LEEUWEN, JOHN	ABANDONED	Abandoned	N/A	Monthly	No
1206508	600612	MYERS, JEFFREY L	YTS-3	Abandoned	N/A	Monthly	No
1206509	600613	BOUMA, MARTIN	DOM/Back-up	Active	N/A	Semi-Annual	No
1206510	600614	BOS, JOHN		Active	N/A	Semi-Annual	No
1206511	600615	ALGER, RAYMOND	S/Golf Course,E/Char	Abandoned	N/A	Semi-Annual	No
1206512	600616	GASTELLUBERY, JEAN	Dairy/Dom	Active	N/A	Semi-Annual	No
1206514	600618	BABCOCK, BOB	Dom	Active	N/A	Semi-Annual	No
1206515	600619	MORENO, LOUIS W	DOM	Active	N/A	Semi-Annual	No
1206619	600623	STUEVE BROTHERS FARMS	Dom	Active	N/A	Monthly	No
1206620	600625	ORANGE COUNTY WATER DISTRICT	DOM	Inactive	N/A	Monthly	No
1206622	600627	RODRIGUES, JOHN	Dairy	Active	N/A	Semi-Annual	No
1206623	600628	RODRIGUES, JOHN	Dairy	Active	N/A	Semi-Annual	No
1206624	600629	RODRIGUES, JOHN	Dairy	Active	N/A	Semi-Annual	Yes
1206627	600634	HUGHES, PAUL	8Ac/Nursery	Active	N/A	Semi-Annual	No
1206628	600635	VAN DER KOOI, CHARLIE	Dairy	Active	N/A	Semi-Annual	No
1206630	600637	H & R BARTHELEMY DAIRY	ABANDONED	Abandoned	N/A	Monthly	No
1206652	600642	CHINO, CITY OF	COFCD	Abandoned	N/A	Owner	No
1206653	600643	CHINO, CITY OF	COFCA/Francis # 1	Abandoned	N/A	Owner	No
1206634	600646	DANIEL WEEDA DAIRY	ABANDONED	Abandoned	N/A	Semi-Annual	No
1206635	600647	AL SCHEENSTRA - LESSEE	IRR	Active	N/A	Semi-Annual	No
1206675	600648	CHINO BASIN DESALTER	1	Active	Layer 2,3	Semi-Annual	No
1206676	600649	CHINO BASIN DESALTER	2	Active	Layer 2,3	Semi-Annual	No
1206677	600650	CHINO BASIN DESALTER	3	Active	Layer 2,3	Semi-Annual	No
1206678	600651	CHINO BASIN DESALTER	4	Active	Layer 1,2,3	Semi-Annual	No
1206679	600652	CHINO BASIN DESALTER	5	Active	Layer 1,2	Semi-Annual	No
1206680	600653	CHINO BASIN DESALTER	8	Active	Layer 1,2	Semi-Annual	No
1206681	600654	CHINO BASIN DESALTER	9	Active	Layer 1,2	Semi-Annual	No
1206682	600655	CHINO BASIN DESALTER	10	Active	Layer 1,2	Semi-Annual	No
1206683	600656	CHINO BASIN DESALTER	11	Active	Layer 1	Semi-Annual	No
1206654	600659	UPLAND, CITY OF	20	Active	Layer 1,2	Owner	Yes
1206642	600660	CALIFORNIA SPEEDWAY	INFIELD WELL	Active	N/A	Semi-Annual	No
1206637	600663	DE BOER, SIDNEY		Active	N/A	Semi-Annual	No
1206638	600664	ORANGE COUNTY WATER DISTRICT	DOM	Active	N/A	Semi-Annual	Yes
1206686	600668	CHINO, CITY OF	YMCA	Observation	N/A	Transducer	No
1206687	600669	CHINO, CITY OF	12th&G	Observation	N/A	Transducer	No
1206674	600670	CHINO, CITY OF	15	Inactive	Layer 1,2,3	Transducer	No
1206688	600671	CHINO, CITY OF		Abandoned	N/A	Owner	No
1206689	600672	CHINO, CITY OF	MVIC (State St)	Abandoned	N/A	Owner	No
1206690	600673	CHINO, CITY OF	East End	Abandoned	N/A	Owner	No
1206751	600679	VANDEN HEUVEL, GEOFFREY		Active	N/A	Monthly	No
1206753	600680	CUCAMONGA COUNTY WATER	CB-38	Active	Layer 2,3	Owner	Yes
1206752	600681	DE BOER, SIDNEY		Active	Layer 1,2	Semi-Annual	No
1206932	600682	JACQUES DAIRY		Active	N/A	Semi-Annual	No
1000525	600685	CUCAMONGA COUNTY WATER	CC-27	Observation	N/A	Owner	No
1000524	600686	CUCAMONGA COUNTY WATER	CC-28	Observation	N/A	Owner	No
1004217	600687	CHINO HILLS, CITY OF	7C	Abandoned	Layer 2,3	Transducer	No
1206945	600688	ONTARIO, CITY OF	39	Active	N/A	Owner	Yes
1207126	600691	STATE OF CALIFORNIA, CIM	14	Active	N/A	Semi-Annual	No
1207127	600692	STATE OF CALIFORNIA, CIM	15	Active	N/A	Semi-Annual	No
1207128	800007	FONTANA WATER COMPANY	FWC/PRAXAIR	Active	N/A	Owner	Yes
1206522	810004	BRIANO BROTHERS	Dom	Active	N/A	Semi-Annual	No
1206525	810009	GUTIERREZ, ERNESTO		Active	N/A	Semi-Annual	No
1002655	1901713	POMONA, CITY OF	P-04	Active	Layer 1,2	Owner	Yes
1002651	1901714	POMONA, CITY OF	P-05 (OLD)	Unknown	Layer 1,2	Owner	No
1002650	1901715	POMONA, CITY OF	P-06	Active	Layer 1,2	Owner	Yes
1002656	1901719	POMONA, CITY OF	P-10	Active	Layer 1,2,3	Owner	Yes
1002660	1901720	POMONA, CITY OF	P-11	Active	Layer 1,2	Owner	Yes
1002661	1901721	POMONA, CITY OF	P-12	Active	Layer 1,2	Owner	Yes
1002663	1901722	POMONA, CITY OF	P-14	Active	Layer 2	Owner	Yes
1002664	1901723	POMONA, CITY OF	P-15	Active	Layer 1,2	Owner	Yes
1002654	1901724	POMONA, CITY OF	P-16	Active	Layer 1	Owner	Yes
1002659	1901725	POMONA, CITY OF	P-17	Active	Layer 2	Owner	Yes
1002662	1901726	POMONA, CITY OF	P-18	Active	Layer 1,2,3	Owner	Yes
1201250	1902353	ANGELICA RENTAL SERVICE	1	Active	N/A	Semi-Annual	No
1002678	1902804	POMONA, CITY OF	P-21	Active	Layer 1,2	Owner	Yes
1002704	1902875	POMONA, CITY OF	P-23	Active	Layer 1,2,3	Owner	Yes
1002685	1902917	POMONA, CITY OF		Active	N/A	Owner	Yes
1002691	1902981	POMONA CEMETERY ASSOCIATION	61760-1	Active	N/A	Semi-Annual	No
1002653	1903016	POMONA, CITY OF	P-02	Active	Layer 1	Owner	Yes
1002706	1903063	POMONA, CITY OF	P-25	Active	Layer 1,2,3	Owner	Yes

Table 4
Wells in Groundwater-Level Monitoring Program in Chino Basin

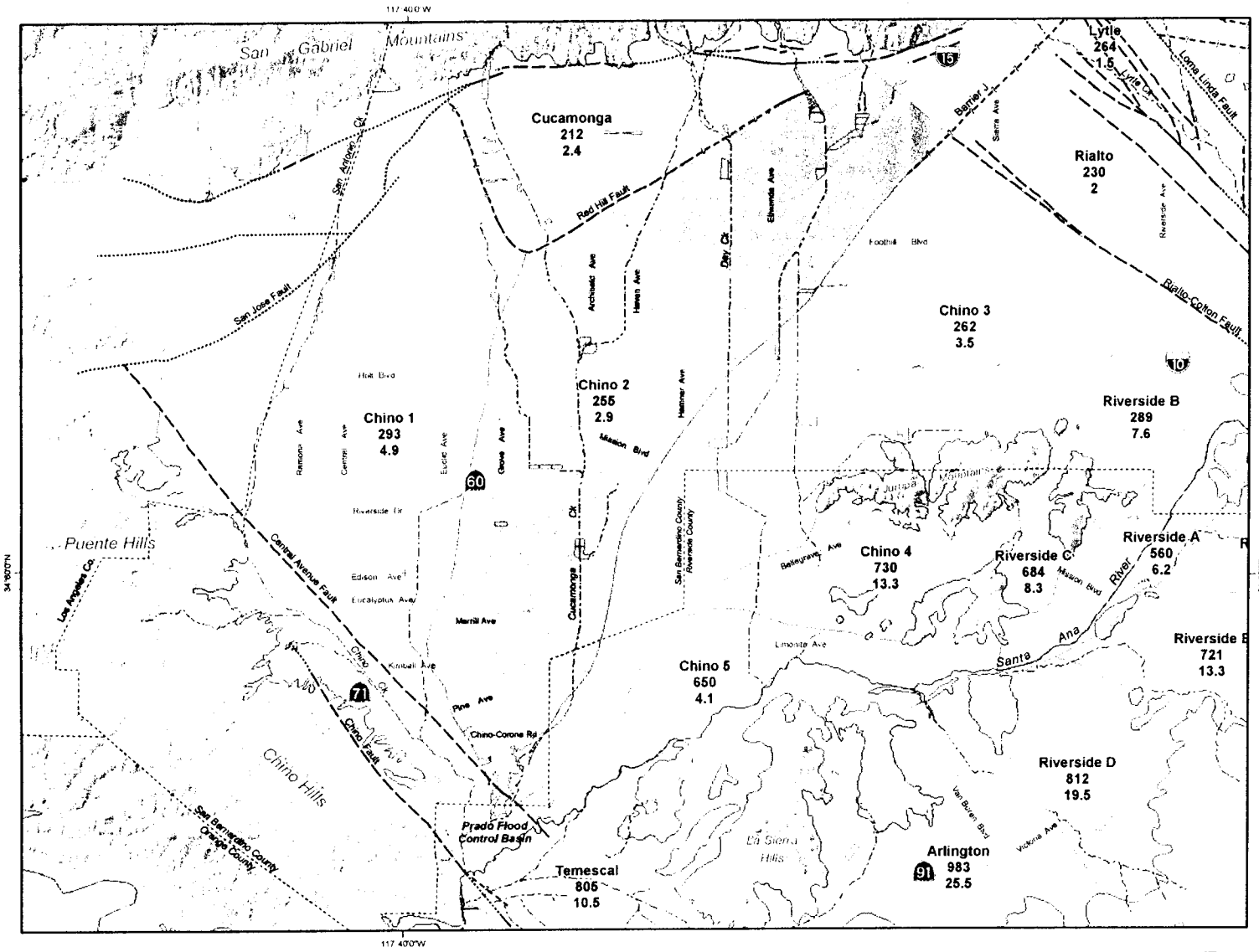
WEID	CBWM ID	Owner	Local Name	Well Status	Construction Information	Frequency of Measurement	Water Quality Well?
1002703	1903079	POMONA, CITY OF	P-26	Active	Layer 1,2,3	Owner	Yes
1201236	1903113	POMONA, CITY OF	P-27	Active	Layer 1,2,3	Owner	Yes
1203062	1903126	POMONA, CITY OF	P-29	Active	Layer 2	Owner	Yes
1002623	1903156	POMONA, CITY OF	P-30	Active	Layer 2,3	Owner	Yes
1201247	1904001	POMONA, CITY OF	P-34	Active	N/A	Owner	Yes
1201246	1904002	POMONA, CITY OF	P-35	Active	N/A	Owner	Yes
1203492	3300059	HOEKSTRA GEORGE	BIG 1	Unknown	N/A	Semi-Annual	No
1202750	3300090	MOONS, JACK	HOUSE	Active	N/A	Monthly	Yes
1202758	3300092	SALVADOR, FRANK		Active	N/A	Monthly	No
1202759	3300093	VANDER EYK, JR., CASE	DOM2	Active	N/A	Monthly	No
1202644	3300145	IMBACH RANCH INC	1	Inactive	N/A	Monthly	No
1203018	3300194	MID-HILL DAIRY	83660-IRR	Active	N/A	Semi-Annual	No
1203019	3300195	MICKELSON, MARION S	EAST 1	Active	N/A	Semi-Annual	No
1202720	3300281	HARADA BROTHERS	1OH	Active	Layer 1,2	Monthly	No
1003964	3300284	VERMEER, DICK	WEST 2	Active	N/A	Monthly	Yes
1202767	3300285	VERMEER, DICK	NEW 3	Active	Layer 1	Monthly	No
1003547	3300718	ROGERS, JACK D & ROBBINS JAC	BIG 2	Abandoned	N/A	Semi-Annual	No
1203490	3300830	VANDER LAAN MARTIN	1	Active	N/A	Semi-Annual	No
1003618	3300905	RODRIGUES, MANUEL	1	Active	Layer 1,2	Monthly	No
1003582	3300973	SANTA ANA RIVER WATER	3	Active	Layer 2	Monthly	No
1203436	3300978	JONGSMA, HAROLD	LARGE IRR	Active	N/A	Semi-Annual	No
1202699	3301025	SILVEIRA, JACK & COELLO J M	1 POULSON	Active	N/A	Monthly	No
1003651	3301380	JURUPA COMMUNITY SERVICES	LIMONITE 1	Observatior	N/A	Owner	No
1003926	3301443	ROYAL CORONA RANCH CO	1	Active	N/A	Monthly	No
1202963	3301503	VAN DER LINDEN, STANLEY	2 DOM	Active	N/A	Semi-Annual	No
1202964	3301504	VAN DER LINDEN, STANLEY	1 IRRIG	Active	N/A	Semi-Annual	No
1201988	3301505	VANDEN BERGE JAKE		Active	Layer 1	Semi-Annual	No
1201986	3301506	VANDEN BERGE JAKE		Active	N/A	Semi-Annual	No
1202947	3301603	VERMEER, DICK	IR P	Inactive	Layer 1	Monthly	No
1003630	3301715	SANTA ANA RIVER WATER	7	Active	Layer 1	Transducer	No
1202966	3301753	CARDOZA FLORENCE		Inactive	N/A	Semi-Annual	Yes
1003507	3301895	JURUPA COMMUNITY SERVICES	8 (Russell Well)	Active	Layer 1,2	Owner	Yes
1003645	3301897	JURUPA COMMUNITY SERVICES	Pedley #4	Unknown	N/A	Owner	No
1100012	3301899	ISELI KURT	NO 1	Active	N/A	Semi-Annual	Yes
1203494	3301929	TOLLERUP HAROLD	3	Active	N/A	Semi-Annual	No
1203450	3301930	TOLLERUP HAROLD	4	Active	N/A	Semi-Annual	Yes
1003665	3301945	SANTA ANA RIVER WATER	1A	Active	N/A	Transducer	No
1003948	3301981	V & Y DAIRY	V & Y DAIRY	Active	N/A	Monthly	No
1202738	3302033	VERMEER, DICK	NO 5	Active	N/A	Monthly	No
1003583	3302078	SANTA ANA RIVER WATER	3A	Active	Layer 2	Transducer	No
1202753	3302090	MOONS, JACK	DOM-DAIRY	Active	Layer 1	Monthly	Yes
1202749	3302097	WEIDMAN MAURICE		Active	N/A	Monthly	Yes
1004100	3302115	NORCO, CITY OF	6	Inactive	N/A	Owner	No
1201991	3302117	VANDERFEER PETER AND RIEKA	DOMESTIC	Active	N/A	Semi-Annual	No
1003679	3302119	VANDERFEER PETER AND RIEKA	Standby	Active	Layer 1	Semi-Annual	No
1203426	3302161	LAWRENCE, JOE		Active	Layer 1	Monthly	No
1002337	3600010	ONTARIO, CITY OF	25	Active	Layer 1,2,3	Owner	Yes
1002340	3600012	ONTARIO, CITY OF	26	Active	Layer 1,2	Owner	Yes
1003919	3600079	OMLIN, ANTON	DOM	Active	Layer 1	Semi-Annual	Yes
1203468	3600087	SWAGER, GERBEN	75960-DOM	Active	N/A	Semi-Annual	No
1100016	3600142	VAN LEEUWEN, JOHN	DAIRY-500C	Active	N/A	Semi-Annual	No
1003857	3600162	PARENTE, MARY	6	Active	N/A	Semi-Annual	No
1002535	3600180	UPLAND, CITY OF	3	Inactive	N/A	Owner	No
1202867	3600193	FAIRVIEW FARMS	83240-IRR	Active	N/A	Semi-Annual	No
1002205	3600212	CUCAMONGA COUNTY WATER	CB-35	Inactive	Layer 2,3	Owner	No
1002206	3600213	CUCAMONGA COUNTY WATER	CB-36	Inactive	Layer 3	Owner	No
1003902	3600225	ALEWYN, JAKE	1240-BACKUP CORRAL	Active	N/A	Semi-Annual	No
1202517	3600318	VAN DAM, DON	DAIRY-EASTSIDE-650C	Active	N/A	Semi-Annual	No
1202471	3600325	DE GROOT, ERNEST	21320-H71	Active	N/A	Semi-Annual	No
1203213	3600339	STATE OF CALIFORNIA, CIM	1	Active	N/A	Monthly	Yes
1004194	3600342	STATE OF CALIFORNIA, CIM	4	Active	Layer 2,3	Transducer	Yes
1002531	3600359	UPLAND, CITY OF	8	Inactive	Layer 1,2,3	Owner	No
1002313	3600360	UPLAND, CITY OF	Repair 9	Inactive	Layer 1,2,3	Owner	No
1202926	3600368	VANDER POEL, PETE	DOM BACKUP	Inactive	N/A	Semi-Annual	No
1002226	3600371	SOUTHERN CALIFORNIA EDISON	EAST WELL	Active	Layer 2,3	Semi-Annual	No
1002224	3600372	SOUTHERN CALIFORNIA EDISON	WEST WELL	Active	Layer 2,3	Semi-Annual	No
1002116	3600379	WEST SAN BERNARDINO COUNTY	WELL 27	Observatior	Layer 1,2	Owner	No
1202762	3600390	KOOPMAN, TENA		Active	N/A	Monthly	No
1203460	3600414	STUEVE BROTHERS FARMS	NOT IN SERVICE	Inactive	N/A	Semi-Annual	No
1202591	3600421	PARENTE, MARY	58960-ARC	Active	N/A	Semi-Annual	No
1003881	3600423	BORBA, GEORGE	9080-DOM	Active	N/A	Semi-Annual	No
1202583	3600425	BORBA, JOSEPH	9280-JOE BORBA-4	Abandoned	N/A	Semi-Annual	No
1003893	3600427	BORBA, JOSEPH	9280-DAIRY#2	Active	N/A	Semi-Annual	Yes
1100011	3600429	BORBA, JOHN & SONS DAIRY	9200-IRR	Active	N/A	Semi-Annual	No
1202418	3600432	STRUIKMANS, HENRY	DAIRY-560C	Active	N/A	Semi-Annual	No
1003883	3600460	SOUTHERN CALIFORNIA	77760-IRR	Active	Layer 1,2	Semi-Annual	Yes
1004204	3600461	CHINO, CITY OF	7	Observatior	Layer 1,2,3	Transducer	No
1002307	3600475	CUCAMONGA COUNTY WATER	CB-4	Active	Layer 2,3	Owner	Yes
1202629	3600503	GOLDEN WEST DAIRIES	NED	Active	N/A	Semi-Annual	No
1202845	3600529	GOYENETCHE, ALBERT	DOM	Active	N/A	Semi-Annual	No
1003775	3600544	HOGG, WARREN	HOG	Active	Layer 1	Semi-Annual	Yes
1002085	3600567	FONTANA WATER COMPANY	F35A	Active	Layer 3	Owner	Yes
1002217	3600572	FONTANA WATER COMPANY	F3A	Active	Layer 2,3	Owner	Yes
1002215	3600573	FONTANA WATER COMPANY	F37A	Active	Layer 2,3	Owner	Yes
1002242	3600574	FONTANA WATER COMPANY	F21A	Active	Layer 1,2,3	Owner	Yes
1002236	3600575	FONTANA WATER COMPANY	F17A	Inactive	Layer 1,2,3	Owner	No
1002084	3600576	FONTANA WATER COMPANY	F39A	Inactive	Layer 2,3	Owner	No
1002213	3600583	FONTANA WATER COMPANY	F30A	Active	Layer 2,3	Owner	Yes
1002081	3600584	FONTANA WATER COMPANY	F31A	Active	Layer 3	Owner	Yes
1002082	3600587	FONTANA WATER COMPANY	F18A	Active	Layer 3	Owner	Yes
1202375	3600597	SUNKIST GROWERS, INC.	9	Active	N/A	Semi-Annual	No
1203483	3600656	PAYNE RANCH	95009	Abandoned	N/A	Monthly	No
1002746	3600657	MONTE VISTA WATER DISTRICT	24	Active	Layer 1,2	Owner	Yes
1202342	3600745	SATRAGNI, JOHN		Active	N/A	Semi-Annual	No
1202433	3600821	DE GROOT, DICK	DAIRY	Active	Layer 1,2	Semi-Annual	No
1202423	3600858	SWAGER DAIRY	95059-BARN	Active	N/A	Semi-Annual	No
1002529	3600862	UPLAND, CITY OF	13	Inactive	Layer 1,2,3	Owner	No
1202211	3600975	KNUDSEN BROTHERS	43840-CWW	Active	N/A	Semi-Annual	Yes
1002150	3601005	WEST SAN BERNARDINO COUNTY	PLANT 20	Observatior	Layer 2	Owner	No
1202859	3601054	OWNER UNKNOWN		Abandoned	N/A	Semi-Annual	No
1202857	3601055	STAHL, ZIPPORA	95017-60H	Abandoned	N/A	Semi-Annual	No
1202856	3601056	STAHL, ZIPPORA	95017-NOR	Active	N/A	Semi-Annual	No
1202834	3601059	J.B.'S CALVES	730-40H	Active	N/A	Monthly	No
1202602	3601064	FIEN, BILL	DOM	Inactive	N/A	Monthly	No
1002335	3601065	ONTARIO, CITY OF	19	Active	N/A	Owner	Yes
1202452	3601113	STELLINGWERF, HENRY	74520	Inactive	N/A	Semi-Annual	No
1203289	3601169	VAN CANNEYT, MAURICE	81320	Active	N/A	Semi-Annual	No

Table 4
Wells in Groundwater-Level Monitoring Program in Chino Basin

WEID	CBWM ID	Owner	Local Name	Well Status	Construction Information	Frequency of Measurement	Water Quality Well?
1002309	3601174	CUCAMONGA COUNTY WATER	CB-1	Active	Layer 1,2,3	Owner	Yes
1202281	3601206	JOHNSON BROTHERS EGG RANCH	41540	Active	N/A	Monthly	No
1202904	3601246	STATE OF CALIFORNIA, CIW	74360-1	Inactive	N/A	Semi-Annual	No
1202906	3601247	STATE OF CALIFORNIA, CIW	2	Abandoned	N/A	Semi-Annual	No
1202903	3601248	STATE OF CALIFORNIA, CIW	74360-3	Abandoned	N/A	Semi-Annual	No
1002722	3601355	MONTE VISTA WATER DISTRICT	2	Active	Layer 1,2,3	Owner	Yes
1002541	3601357	MONTE VISTA WATER DISTRICT	4	Active	Layer 1,2	Owner	Yes
1002544	3601358	MONTE VISTA WATER DISTRICT	5	Active	Layer 2,3	Owner	Yes
1002646	3601361	MONTE VISTA WATER DISTRICT	8	Inactive	Layer 1,2	Owner	No
1002627	3601362	MONTE VISTA WATER DISTRICT	9	Active	Layer 1,2	Owner	Yes
1002546	3601363	MONTE VISTA WATER DISTRICT	10	Active	N/A	Owner	Yes
1002219	3601364	KAISER STEEL CORPORATION	1	Active	Layer 2,3	Semi-Annual	No
1002234	3601366	KAISER STEEL CORPORATION	PF	Active	Layer 2,3	Owner	Yes
1002552	3601367	MONTE VISTA WATER DISTRICT	11	Active	Layer 1,2	Owner	Yes
1002312	3601373	CUCAMONGA COUNTY WATER	CB-3	Unknown	Layer 1,2,3	Owner	Yes
1202184	3601399	SHADY GROVE DAIRY FARM	IRRIGATION-25CORN	Active	N/A	Semi-Annual	No
1003765	3601400	SHADY GROVE DAIRY FARM	DAIRY-800C	Active	Layer 1,2	Semi-Annual	Yes
1202775	3601410	DE BOER, SIDNEY	21040-DOM	Abandoned	N/A	Monthly	No
1202598	3601421	VAN DEN BERG, MARVIN	81640-DOM	Active	N/A	Semi-Annual	No
1202774	3601454	COUNTY OF SAN BERNARDINO,	AG#6-BRITSCHGI	Active	N/A	Monthly	No
1002315	3601561	SAN ANTONIO WATER COMPANY	12	Inactive	N/A	Owner	No
1206569	3601563	SAN ANTONIO WATER COMPANY	15	Active	N/A	Owner	Yes
1002321	3601565	SAN ANTONIO WATER COMPANY	18	Inactive	Layer 1,2	Owner	No
1004178	3601618	CHINO, CITY OF	4	Active	Layer 1	Transducer	No
1002741	3601752	CHINO, CITY OF	5	Active	Layer 2,3	Owner	Yes
1002327	3601771	ONTARIO, CITY OF	3	Active	Layer 2,3	Owner	Yes
1002328	3601772	ONTARIO, CITY OF	4	Inactive	Layer 2,3	Owner	No
1002319	3601777	ONTARIO, CITY OF	9	Active	Layer 2,3	Owner	Yes
1002346	3601778	ONTARIO, CITY OF	11	Active	Layer 1,2,3	Owner	Yes
1004161	3601819	MONTE VISTA WATER DISTRICT	23	Active	Layer 1,2	Owner	Yes
1004297	3601827	STATE OF CALIFORNIA, CIM	1A	Active	Layer 1,2	Transducer	Yes
1202819	3601885	DURRINGTON, W.F.		Active	Layer 1,2	Monthly	No
1004280	3601911	CHINO HILLS, CITY OF	1A	Active	Layer 1,2	Transducer	No
1203203	3601912	BROGURERE, R.	84490-2	Active	N/A	Semi-Annual	No
1004215	3601916	CHINO HILLS, CITY OF	7A	Active	Layer 1,2	Owner	Yes
1004216	3601917	CHINO HILLS, CITY OF	7B	Active	Layer 1,2	Owner	Yes
1004268	3601922	CHINO HILLS, CITY OF	13	Active	N/A	Owner	Yes
1002362	3601952	ONTARIO, CITY OF	27	Active	Layer 2,3	Owner	Yes
1003875	3601960	STATE OF CALIFORNIA, CIM	6	Inactive	Layer 1,2,3	Monthly	No
1002311	3602000	CUCAMONGA COUNTY WATER	CB-5	Active	Layer 2,3	Owner	Yes
1002636	3602051	ONTARIO, CITY OF	15	Active	Layer 2,3	Owner	Yes
1002348	3602052	ONTARIO, CITY OF	16	Active	Layer 1,2	Owner	Yes
1202316	3602071	STANDARD FEEDING CO.	69120-WEST	Active	N/A	Semi-Annual	No
1202554	3602102	SOUTHERN CALIFORNIA	77760-PAR	Active	N/A	Monthly	No
1004176	3602105	CHINO, CITY OF	6	Active	Layer 1,2	Transducer	No
1002349	3602107	ONTARIO, CITY OF	17	Active	Layer 1,2,3	Owner	Yes
1002225	3602116	SOUTHERN CALIFORNIA EDISON	C	Active	Layer 2,3	Semi-Annual	No
1202480	3602213	SOUTHERN CALIFORNIA	54440	Active	N/A	Semi-Annual	No
1002330	3602266	ONTARIO, CITY OF	18	Active	Layer 1,2,3	Owner	Yes
1002305	3602267	ONTARIO, CITY OF	20	Active	N/A	Owner	Yes
1003878	3602332	STATE OF CALIFORNIA, H.G. STARK	73000-1	Active	Layer 1,2	Monthly	Yes
1002339	3602457	ONTARIO, CITY OF	24	Active	Layer 2,3	Owner	Yes
1004285	3602461	STATE OF CALIFORNIA, CIM	11A	Active	Layer 1,2	Monthly	Yes
1202311	3602468	SOUTHERN CALIFORNIA EDISON		Abandoned	N/A	Monthly	No
1202458	3602489	SOUTHERN CALIFORNIA	95060-IRR	Active	N/A	Semi-Annual	No
1202074	3602491	BORBA, JOSEPH	9280-B&B DAIRY	Active	N/A	Semi-Annual	No
1202558	3602503	COUNTY OF SAN BERNARDINO,	AG#4-BRITSCHGI	Active	N/A	Semi-Annual	No
1202337	3602533	VANDER EYK, ROBERT	85170-DOM	Active	N/A	Semi-Annual	No
1202173	3602535	DUITS, JOHN	25520	Active	N/A	Semi-Annual	No
1202879	3602536	WESTRA, H & R DAIRY	IRR-CR-BICK/CUC	Inactive	N/A	Semi-Annual	No
1202866	3602546	FAIRVIEW FARMS	83240-DOM	Active	N/A	Semi-Annual	Yes
1202336	3602547	FERREIRA, FRANK		Active	N/A	Semi-Annual	No
1202588	3602553	ALBERS, RAY	1180-DOM	Active	N/A	Semi-Annual	No
1202568	3602554	DYT, JOHANNA TRUST	DOM	Active	N/A	Semi-Annual	No
1003810	3602556	DYKSTRA, PETE & JOHN	ELEC-DAIRY-DOM	Active	Layer 1,2	Monthly	No
1003892	3602565	BORBA, JOE		Active	Layer 1,2	Semi-Annual	No
1202688	3602569	DE VRIES, CASE	22720-DOM	Active	N/A	Monthly	No
1203285	3602572	VEIGA, AMELIA	87480-DOM	Active	N/A	Semi-Annual	No
1202611	3602583	ALEWYN, JAKE	CARPENTER	Abandoned	N/A	Monthly	No
1202940	3602585	WIND, JOHN	92840-DOM	Active	N/A	Semi-Annual	No
1202939	3602586	WIND, JOHN	92840-IRR	Inactive	N/A	Monthly	No
1202593	3602587	WIERSEMA, HARRY	91920-IRR	Active	N/A	Semi-Annual	No
1003897	3602588	WIERSEMA, HARRY	91920-DRY	Active	Layer 1,2,3	Monthly	No
1202660	3602589	DUHALDE, LAUREN	DAIRY-450C	Active	N/A	Semi-Annual	No
1202177	3602590	HOHBERG, HAROLD		Active	N/A	Semi-Annual	No
1202304	3602594	LOYOLA DAIRY-KASBARGEN DAIRY	DAIRY-1300COWS	Active	N/A	Semi-Annual	Yes
1202507	3602602	SOUTHERN CALIFORNIA	DOM	Active	N/A	Semi-Annual	No
1202439	3602603	SOUTHERN CALIFORNIA	DOM	Active	N/A	Semi-Annual	No
1202136	3602605	WALTON, FRANK		Active	N/A	Semi-Annual	No
1202329	3602608	DOUMA BROTHERS		Active	N/A	Monthly	No
1202800	3602609	BOUMA, EWOUDE	95010-DOM	Inactive	N/A	Semi-Annual	No
1202847	3602624	STAHL, ZIPPORA	95017	Inactive	N/A	Semi-Annual	No
1202858	3602625	STAHL, ZIPPORA	95017-GAS	Abandoned	N/A	Semi-Annual	No
1002743	3602666	CHINO, CITY OF	9	Active	Layer 1,2,3	Owner	Yes
1203283	3602680	CHINO, CITY OF	10	Active	Layer 1,2,3	Owner	Yes
1003879	3602691	STATE OF CALIFORNIA, CIM	74280-13	Active	Layer 1,2,3	Semi-Annual	No
1206958	N/A	CHINO BASIN DESALTER	13	Active	N/A	Semi-Annual	No
1206960	N/A	CHINO BASIN DESALTER	15	Active	N/A	Semi-Annual	No
1206959	N/A	CHINO BASIN DESALTER	14	Active	N/A	Semi-Annual	No
1206787	N/A	STATE OF CALIFORNIA, CIM	P-23S	Observation	Layer 1	Transducer	No
1206786	N/A	STATE OF CALIFORNIA, CIM	P-23I	Unknown	Layer 1	Transducer	No
1206766	N/A	STATE OF CALIFORNIA, CIM	MW-24S	Unknown	Layer 1	Transducer	No
1206765	N/A	STATE OF CALIFORNIA, CIM	MW-24I	Unknown	Layer 1	Transducer	No
1206764	N/A	STATE OF CALIFORNIA, CIM	MW-22DR	Unknown	Layer 2	Transducer	No
1206785	N/A	STATE OF CALIFORNIA, CIM	P-23D	Unknown	Layer 2	Transducer	No

Table 5
Key Well Program for Groundwater Quality in Chino Basin

WEID	CBWM ID	CBWM Status	Construction Information	Water Level Well?	General Physical/ General Mineral	VOCs
1003480	600016	Active	Layer 2	No	Yes	No
1003555	300169	Active	No	No	Yes	No
1003593	3302088	Active	No	No	Yes	No
1003765	3601400	Active	Layer 1	No	Yes	Yes
1003773	3600433	Active	No	No	Yes	Yes
1003775	3600544	Active	Layer 1	No	Yes	No
1003776	600230	Active	No	No	Yes	No
1003781	600403	Active	No	No	Yes	Yes
1003799	600400	Active	No	No	Yes	Yes
1003878	3602332	Active	Layer 1	Yes	Yes	No
1003883	3600460	Active	Layer 1	No	Yes	No
1003893	3600427	Active	No	No	Yes	Yes
1003919	3600079	Active	Layer 1	No	Yes	Yes
1003941	3301637	Active	No	No	Yes	Yes
1003964	3300284	Active	No	No	Yes	Yes
1003983	600399	Active	Layer 1	Yes	Yes	Yes
1003992	600393	Active	No	No	Yes	Yes
1004089	300230	Active	Layer 1	No	Yes	No
1004185	600478	Active	No	No	Yes	Yes
1004194	3600342	Active	Layer 2	Yes	Yes	No
1004229	3601824	Active	No	No	Yes	No
1004285	3602461	Active	Layer 1	No	Yes	No
1004293	3600345	Active	Layer 1	No	Yes	No
1004297	3601827	Active	Layer 1	No	Yes	Yes
1004299	3600346	Active	Layer 1	No	Yes	No
1100012	3301899	Active	No	No	Yes	No
1201887	3302089	Active	No	No	Yes	No
1201903	3301209	Active	No	No	Yes	No
1201976	300102	Active	No	No	Yes	No
1201980	300149	Active	No	No	Yes	No
1201983	300218	Active	No	No	Yes	No
1201993	300105	Active	Layer 1	No	Yes	No
1202019	600573	Active	No	No	Yes	No
1202117	600107	Active	No	No	Yes	No
1202118	600387	Active	No	No	Yes	Yes
1202123	3600816	Active	No	No	Yes	No
1202154	3602078	Active	Layer 2	No	Yes	No
1202163	3600329		No	No	Yes	No
1202167	3600446	Active	No	No	Yes	No
1202196	600446	Active	No	No	Yes	Yes
1202198	600540	Active	Layer 2	No	Yes	No
1202199	600208	Active	No	No	Yes	No
1202211	3600975	Active	No	No	Yes	No
1202248	600447	Active	No	No	Yes	Yes
1202256	600507	Active	No	No	Yes	Yes
1202260	600404	Active	No	No	Yes	Yes
1202278	600204	Active	No	No	Yes	No
1202296	600480	Active	No	No	Yes	No
1202302	600076	Active	No	No	Yes	No
1202303	600075	Active	No	No	Yes	No
1202304	3602594	Active	No	No	Yes	No
1202304	3602594	Active	No	No	Yes	No
1202317	600125	Active	No	No	Yes	Yes
1202345	600054	Active	No	No	Yes	No
1202356	600529	Active	No	No	Yes	Yes
1202395	600521	Active	No	No	Yes	Yes
1202438	300216	Active	No	No	Yes	No
1202448	600036	Active	No	No	Yes	No
1202461	3602209	Active	No	No	Yes	Yes
1202470	600193	Active	No	No	Yes	Yes
1202503	600246	Active	No	No	Yes	No
1202536	600435	Active	No	No	Yes	No
1202565	3602500	Active	No	No	Yes	Yes
1202576	600339	Active	No	No	Yes	Yes
1202589	3601335	Active	No	No	Yes	Yes
1202604	600274	Active	No	No	Yes	No
1202643	600463	Active	No	No	Yes	No
1202661	600514	Active	No	No	Yes	Yes
1202675	600291	Active	No	No	Yes	No
1202690	600012	Active	No	No	Yes	Yes
1202737	300070	Active	No	No	Yes	Yes
1202749	3302097	Active	No	No	Yes	No
1202750	3300090	Active	No	No	Yes	No
1202753	3302090	Active	Layer 1	Yes	Yes	Yes
1202782	600517	Active	No	No	Yes	Yes
1202809	600050	Active	No	Yes	Yes	No
1202866	3602546	Active	No	No	Yes	Yes
1202901	600530	Active	No	Yes	Yes	No
1202966	3301753	Inactive	No	No	Yes	Yes
1202968	300115	Active	No	No	Yes	Yes
1203011	300033	Active	No	No	Yes	No
1203023	300022	Active	No	No	Yes	No
1203050	600079	Active	No	No	Yes	Yes
1203137	600366	Active	No	No	Yes	No
1203153	600191	Active	No	No	Yes	No
1203186	600048	Inactive	Layer 1	No	Yes	No
1203210	600511	Active	Layer 1	No	Yes	Yes
1203213	3600239	Active	No	No	Yes	Yes
1203236	600549	Active	No	No	Yes	No
1203267	600227	Active	No	No	Yes	Yes
1203278	3600354	Active	No	No	Yes	No
1203299	3600438	Active	No	No	Yes	No
1203433	300085	Active	No	No	Yes	No
1203450	3301930	Inactive	No	No	Yes	No
1203473	600425	Active	No	No	Yes	No
1203496	300148	Active	No	No	Yes	Yes
1206469	300227	Active	No	No	Yes	No
1206470	300228	Active	No	No	Yes	No
1206471	300229	Active	No	No	Yes	No
1206482	300244	Active	No	No	Yes	No
1206617	600513	Inactive	No	No	Yes	No
1206624	600629	Active	No	No	Yes	Yes
1206626	600632	Active	No	No	Yes	Yes
1206638	600664	Active	No	No	Yes	No
1207114		Monitoring	No	Yes	Yes	No
1207115		Monitoring	No	Yes	Yes	No
1207116		Monitoring	No	Yes	Yes	No
1207117		Monitoring	No	Yes	Yes	No
1207118		Monitoring	No	Yes	Yes	No
1207119		Monitoring	No	Yes	Yes	No
1207120		Monitoring	No	Yes	Yes	No
1207121		Monitoring	No	Yes	Yes	No
1207122		Monitoring	No	Yes	Yes	No
1207123		Monitoring	No	Yes	Yes	No



Management Zone Labeling Key

Chino-1
293
4.9

Management Zone Name
TDS Anti-Deg Objective
Nitrate Anti-Deg Objective

Other Features

Rivers, Creeks, and Flood Control Channels

Flood Control & Conservation Basins

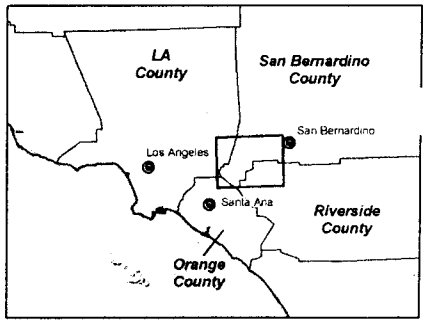
Geology

Unconsolidated Water-Bearing Sediments

Consolidated Bedrock

Faults

Location Certain
Location Approximate
Location Concealed
Location Uncertain



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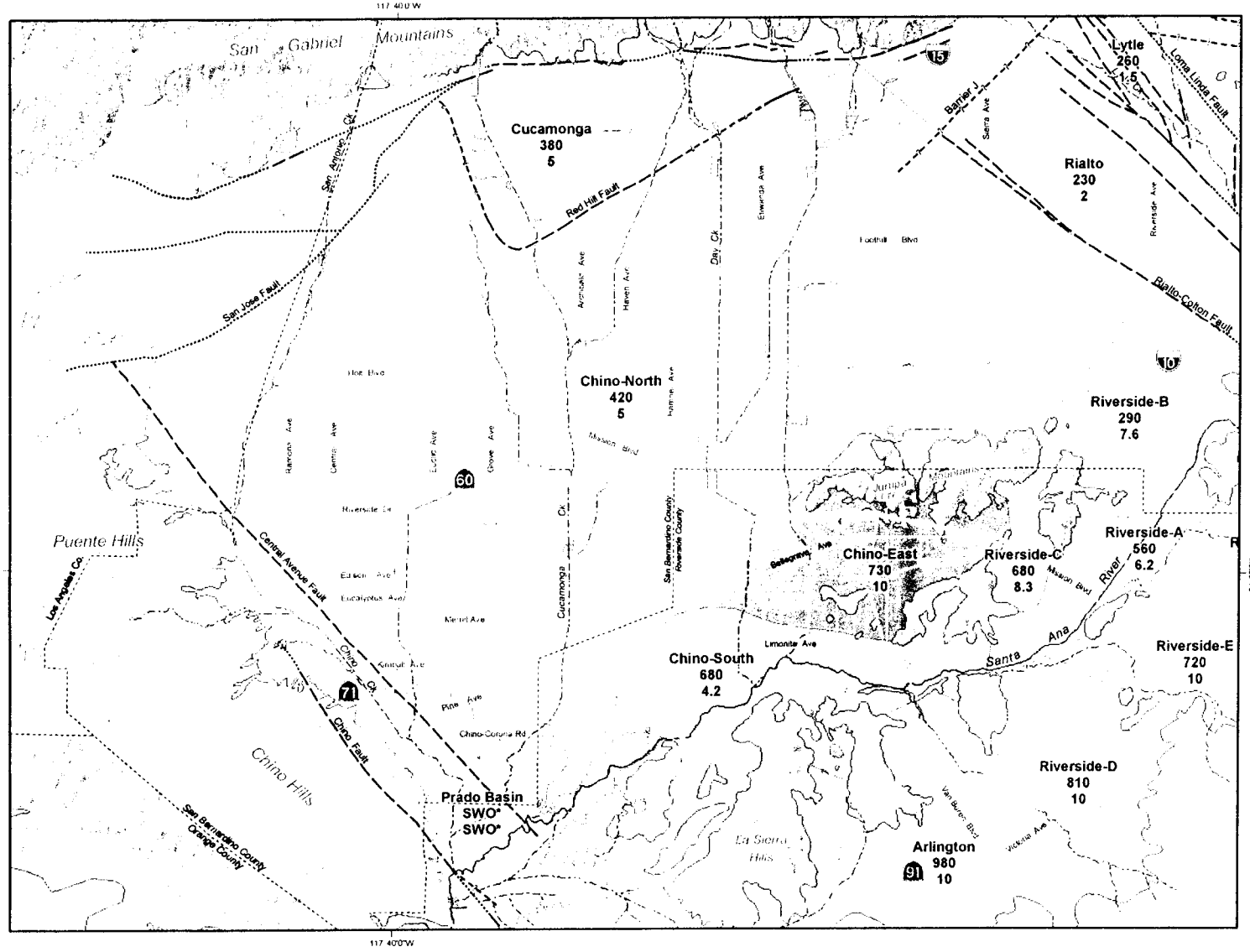
0 2 4 Miles
0 2 4 6 KM

Inland Empire

Chino Basin Optimum Basin Management Program

OBMP Management Zones and Associated Anti-Degradation Objectives

Figure 1



Management Zone Labeling Key

Management Zone Name
Chino-North
293 TDS Maximum Benefit Objective
4.9 Nitrate Maximum Benefit Objective

*SOW = Surface Water Objective

Other Features

Rivers, Creeks, and Flood Control Channels

Flood Control & Conservation Basins

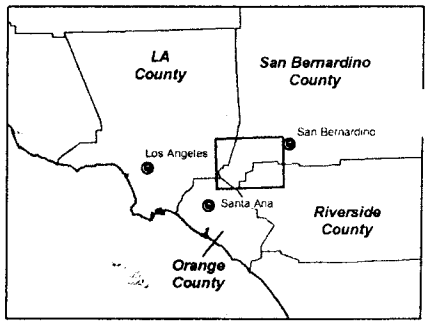
Geology

Unconsolidated Water-Bearing Sediments

Consolidated Bedrock

Faults

Location Certain
Location Approximate
Location Concealed
Location Uncertain



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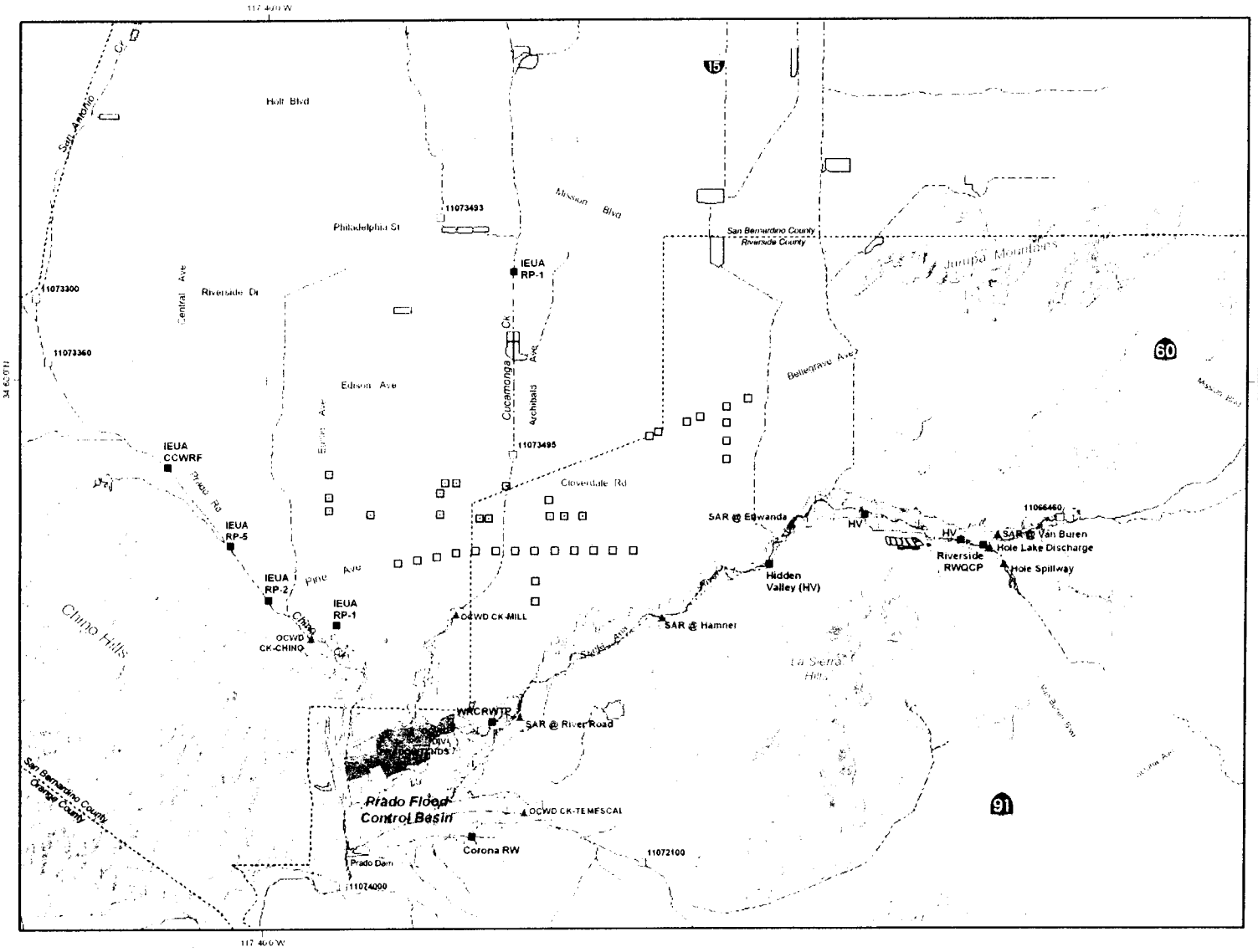
Chino Basin Optimum Basin Management Program

Maximum Benefit-Based Management Zones and Associated Objectives

Figure 2



Main Map Features

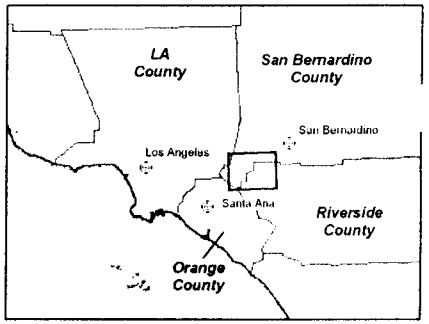
- Ad Hoc Surface Water Station -- HCMP
- USGS Gaging Stations
- Recycled Water Discharge Locations
- Ad Hoc Surface Water Station -- OCWD
- Existing Desalter-1 Well
- Future Desalter Well (planned location)

Other Features

- Flood Control and/or Conservation Basin
- OCWD Duck Ponds
- SAR Phreatophytes

Geology

- Unconsolidated Sediments
- Consolidated Bedrock



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0 2 4 6 Km

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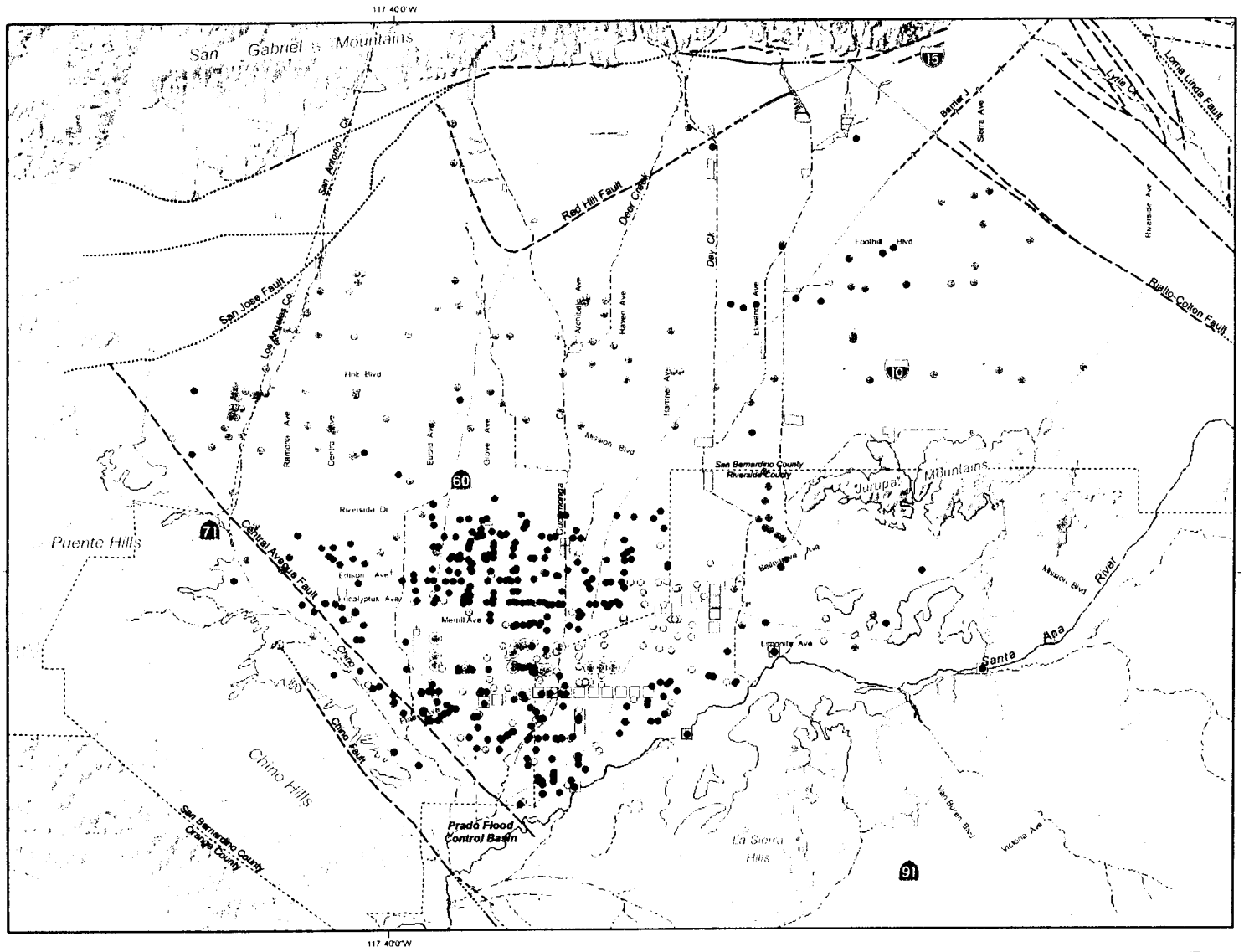
Chino Basin Optimum Basin Management Program

Surface Water Monitoring Sites

for Chino Basin Maximum Benefit Implementation Plan for Salt Management

Figure 3



Groundwater-Level Monitoring Network

- Monthly Measurement by CBWM (118 wells)
- Semi-Annual Measurement by CBWM (328 wells)
- Measurement by CBWM Transducer (35 wells)
- Measured by Municipal Agency (148 wells)
- CBWM Ayala Park Piezometers (10 wells)
- USGS NAWQA Monitoring Well

Other Features

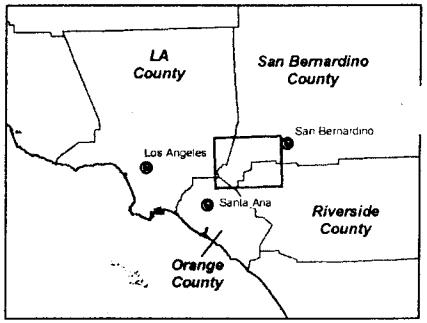
- Chino-1 Desalter Well (Existing)
- Chino Desalter Well (Proposed)
- Rivers, Creeks, and Flood Control Channels
- Flood Control or Conservation Basins
- Chino Basin

Geology

- Unconsolidated Water-Bearing Sediments
- Consolidated Bedrock

Faults

- Location Certain
- Location Approximate
- Location Concealed
- Location Uncertain



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0 1 2 3 4 Miles
0 2 4 8 KM

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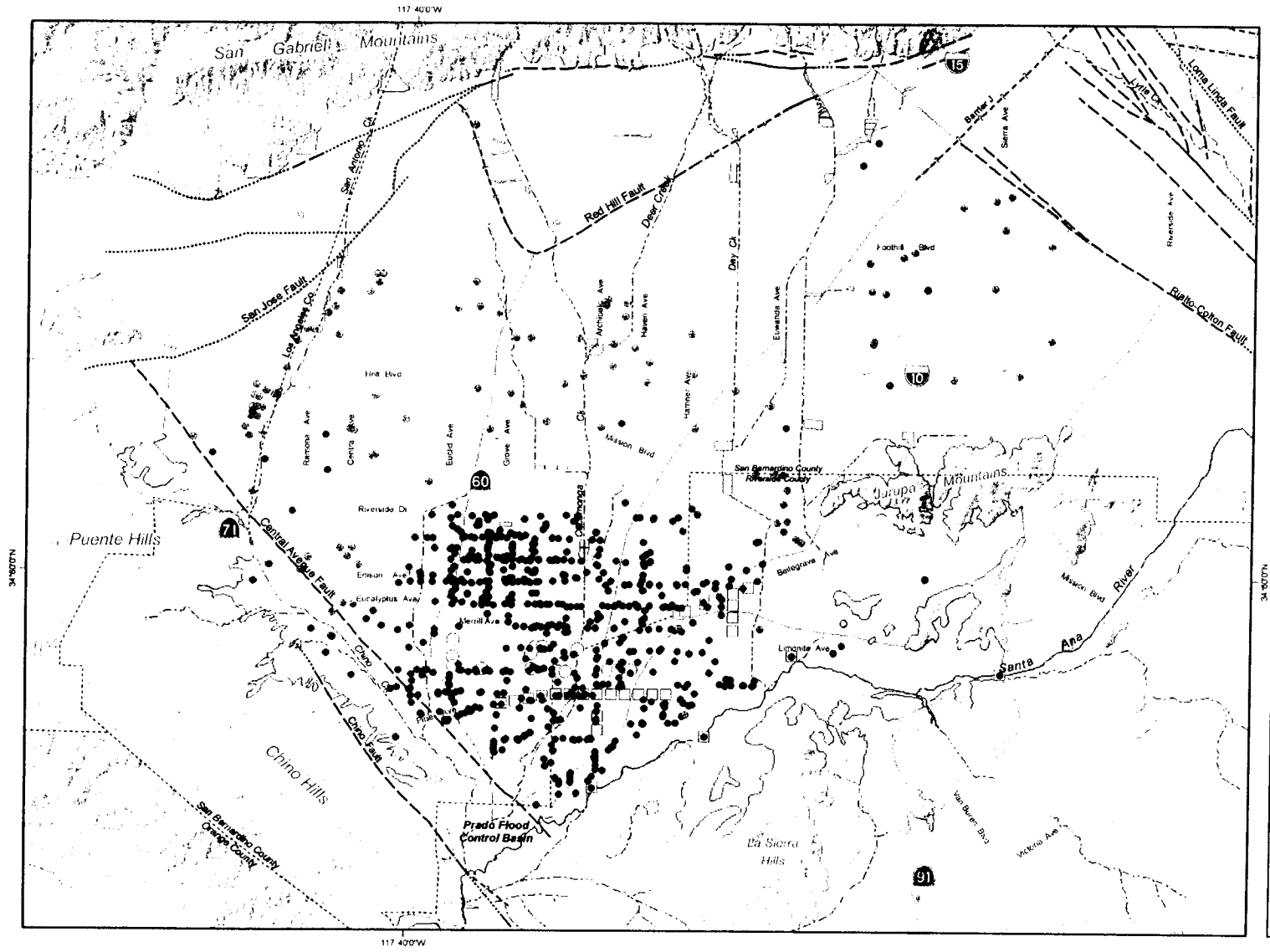
Chino Basin Optimum Basin Management Program

Location of Wells in Water-Level Monitoring Program

Figure 4



Groundwater Quality Monitoring Network

- CBWM Key Well (111 wells)
- Well Sampled by Municipal Agency (114 wells)
- Wells Sampled as Part of Initial OBMP Program (603 wells)

Other Features

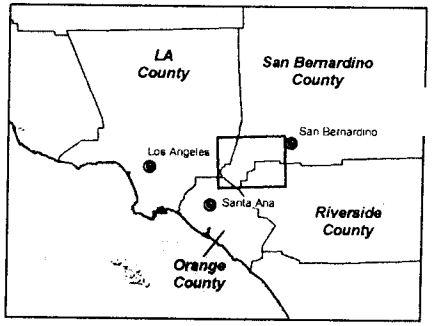
- USGS NAWQA Monitoring Well
- Chino-1 Desalter Well (Existing)
- Chino Desalter Well (Proposed)
- Rivers, Creeks, and Flood Control Channels
- Flood Control or Conservation Basins
- Chino Basin

Geology

- Unconsolidated Water-Bearing Sediments
- Consolidated Bedrock

Faults

- Location Certain
- Location Approximate
- Location Concealed
- Location Uncertain



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0 1 2 3 4 Miles
0 2 4 6 KM

Inland Empire

Chino Basin Optimum Basin Management Program

Location of Wells in Groundwater-Quality Monitoring Program

Figure 5